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# Columbia South Shore Wellfield Wellhead Protection Program

## Reference Manual

CITY OF GRESHAM  
ENVIRONMENTAL SERVICES  
STORMWATER DIVISION

November 2002

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**Columbia South Shore**  
**Wellfield Wellhead Protection Program Reference Manual**

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1    **Section 1 Regulated Area and Identification of Chemical Thresholds for**  
2    **Regulation**

4    **1.1 Objectives and Regulatory Program Outline**

6    The objectives of the Columbia South Shore Wellfield Wellhead Protection Program (CSSW  
7    WHPP) are:

- 9       • To maintain the quality of groundwater used as drinking water;
- 10      • To set minimum standards for protection of groundwater in the regulated area; and
- 11      • To provide recommendations for facilities and transportation authorities to assist them in  
12       providing groundwater protection for onsite chemical usage or activities.

14    At the same time, the Cities are committed:

- 16      • To sustain existing commerce in the area; and
- 17      • To provide for continued economic development and growth within the wellhead protection  
18       program area.

20    The wellhead protection program requirements are focused on efforts to protect groundwater quality,  
21    based on the types of chemicals present onsite using the structural and non-structural measures  
22    described herein. The requirements and recommendations are intended:

- 24      • To complement other requirements where deemed necessary;
- 25      • To be consistent with other requirements;
- 26      • To be balanced and implementable, and
- 27      • To establish consistency across jurisdictional boundaries

29    Since the protection area encompasses portions of the Cities of Portland, Gresham and Fairview,  
30    these requirements and recommendations are intended to ensure consistency and equity.

32    **1.2 Regulated Area Boundary**

34    **1.2.1 CSSW Groundwater Resource Wellhead Protection Area**

35    The regulated area (i.e., the designated groundwater protection area) is based on a groundwater  
36    model simulation of the 30-year time of travel to the production wells of the Columbia South Shore  
37    Groundwater Resource Wellhead Protection Area (WHPA). The area (see Figure 1<sup>1</sup>) includes  
38    portions of the Cities of Portland, Gresham, and Fairview. The groundwater resource protection  
39    areas include the:

41      **City of Portland**

42      Columbia South Shore (COSS) Plan District

43      Cascade Station/Portland International Center (CS/PIC) Plan Districts

45      **City of Gresham**

46      Wellhead Protection Overlay District

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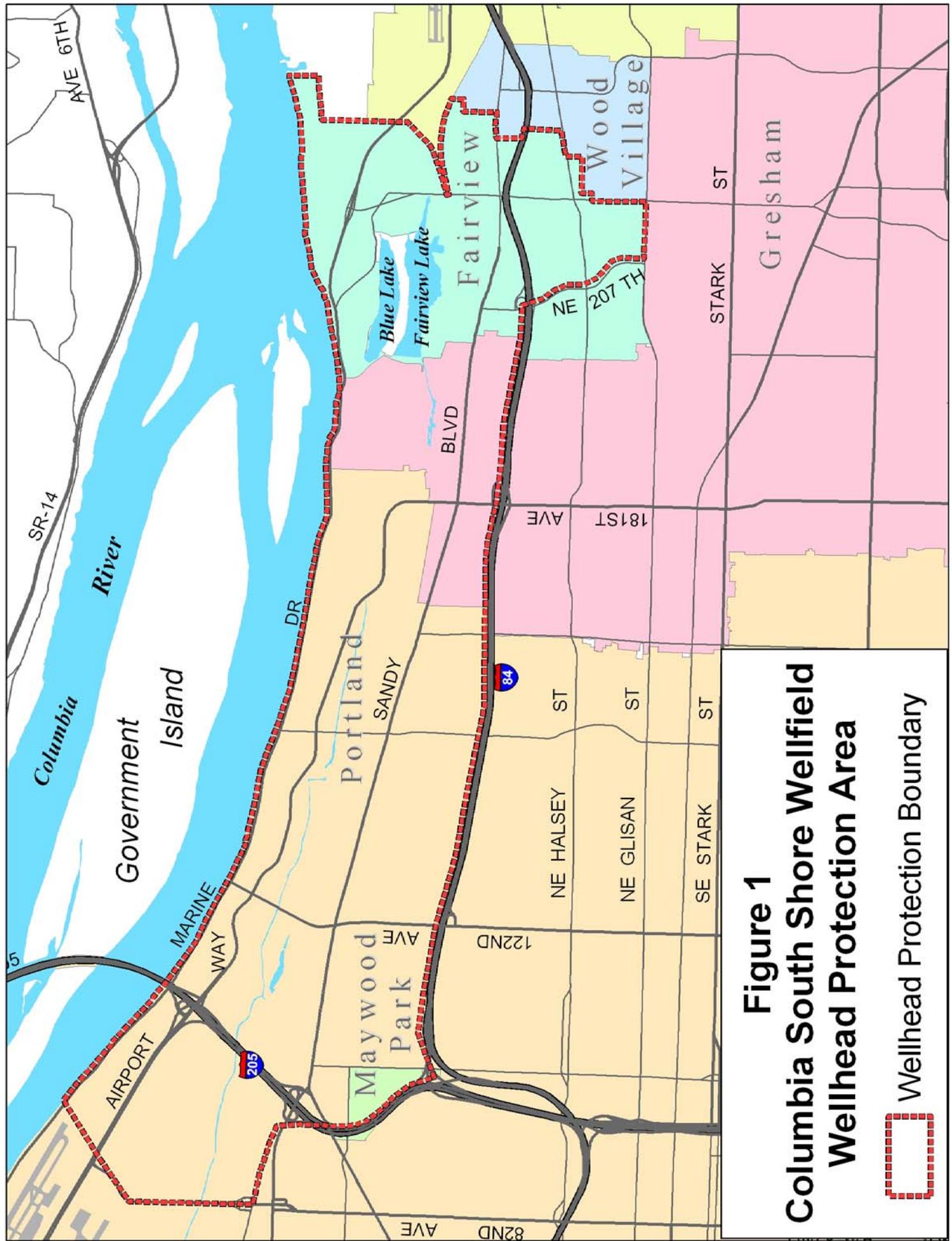
<sup>1</sup> Figure 1 has been reproduced from Chapter 21.35 – Wellhead Protection of the City of Portland Water Code.

1           City of Fairview  
2           Wellhead Protection Overlay District  
3  
4           Multnomah County  
5           Blue Lake Park (City of Fairview)  
6           Area between Blue Lake and Fairview Lake (Interlachen Community)  
7

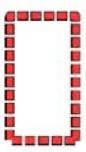
8           **1.2.2 Definition of Zones**

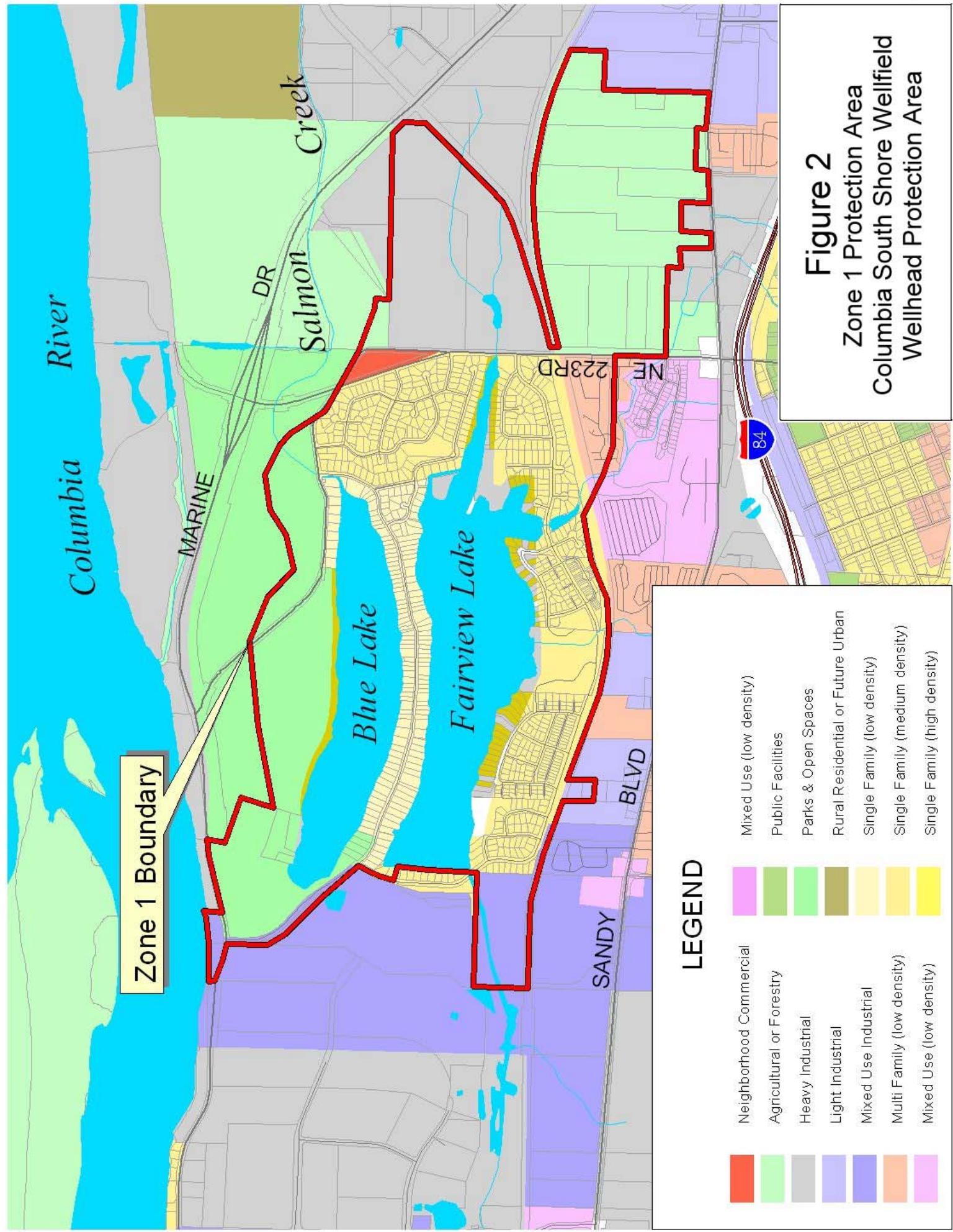
9  
10          The area denoted in Figure 2 shall be referred to as Zone 1. The City of Portland has determined  
11         that this area of the WHPA is geologically and hydrogeologically dissimilar from the majority of  
12         the area included in the WHPA. As provided in Section 2.1 – New Facilities, certain provisions  
13         of this manual apply specifically to new developments that may locate in Zone 1. As provided in  
14         Sections 2.2.2 and 2.3.2, certain provisions of this manual specifically apply to modified and  
15         existing facilities located in Zone 1.

16  
17          All areas of the WHPA not located within Zone 1 shall be referred to as Zone 2 for convenience.  
18  
19



**Figure 1**  
**Columbia South Shore Wellfield**  
**Wellhead Protection Area**





**Figure 2**  
**Zone 1 Protection Area**  
**Columbia South Shore Wellfield**  
**Wellhead Protection Area**

1      **1.3 Regulated Materials and Thresholds**

2  
3    For sites located in the designated WHPA, the transport, storage and use of mobile chemicals that are  
4    Halogenated Solvents, are Carcinogenic Materials, are a Hazardous Substance, are a Hazardous  
5    Waste, or are Petroleum Products (which includes Fuel) as defined below may be subject to  
6    requirements that are described in this document. For the purposes of this regulatory program,  
7    mobile Hazardous Substances, Carcinogenic Materials, Halogenated Solvents, and Hazardous  
8    Wastes are referred to as *Hazardous Materials*. This definition may differ from that used in other  
9    regulatory contexts. As described in Section 2, sites may become regulated either through the  
10   building permit process, or as part of a routine reporting and inspection program.

11     **1.3.1 Regulated Hazardous Material Definition**

12     As used herein, the following chemical categories are subject to regulation under the WHPP  
13    regulations and referred to as Hazardous Materials:

- 14     1) *Halogenated Solvent* - Any liquid with a specific gravity greater than 1.0 at ambient  
15    temperature, and contains at least ten (10) percent of a chemical or chemicals (by weight)  
16    classified as a halogenated organic compound. A list of halogenated solvents is provided in  
17    Appendix A.
- 18     2) *Carcinogenic Material* – Any mobile chemical or mobile chemical mixture that contains a  
19    known or reasonably anticipated human carcinogen or carcinogens listed in the current  
20    version of the U.S. Public Health Service’s National Toxicology Program (NTP) Ninth  
21    Report on Carcinogens (ROC, or as updated) at a concentration of at least ten (10) percent  
22    (by weight). A list of carcinogenic materials is provided in Appendix B.
- 23     3) *Hazardous Substance* – Any mobile chemical or mobile chemical mixture that contains one  
24    or more constituents listed in the current version of the U.S. EPA publication Consolidated  
25    List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act  
26    (EPCRA) and Section 112(r) of the Clean Air Act (EPA 550-B-01-003, or as updated), at a  
27    concentration of at least ten (10) percent (by weight). The ‘Chemical List of Lists’ is  
28    included as Appendix C. Materials included on the ‘Chemical List of Lists’ that would  
29    normally be considered under the Petroleum definition, below, including but not limited to,  
30    propane (CAS 74-96-6) and methane (CAS 74-82-8) shall be excluded from the definition of  
31    Hazardous Substance and addressed as Petroleum products.
- 32     4) A *Hazardous Waste* defined pursuant to OAR Chapter 340, Division 101, shall be  
33    considered a *Hazardous Material* at the regulatory threshold concentrations or definitions at  
34    which they are deemed to be a *hazardous waste* by the Oregon Department of  
35    Environmental Quality. For the purposes of the WHPP, hazardous wastes shall be  
36    considered mobile.

37     As used in the definitions above, and in Section 1.3.2, below, a mobile chemical is (a) any liquid at  
38    ambient temperature, or (b) a solid that has an aqueous solubility of at least ten (10) percent by  
39    weight as determined from its Material Safety Data Sheet (MSDS) or other published chemical  
40    reference.

1      **1.3.2 Petroleum Definition**

2      As used herein, *Petroleum, Petroleum products, and Petroleum Fuels* are defined as follows:

- 3
- 4
- 5      1) *Petroleum or Petroleum Products* - Means petroleum-based products in any form, including  
6      but not limited to crude oil, fuel oils including gasoline and diesel, mineral oil, sludge, oil  
7      refuse, and refined products. Typical uses of refined products includes, but is not limited to  
8      lubricants, non-PCB electrical insulating fluids, heat transfer fluids, brake fluid, hydraulic  
9      fluids, refrigeration fluids, cutting/machining fluids and coolants, and grease. The term  
10     *Petroleum or Petroleum Products* includes *Petroleum Fuel*, below. Excluded from this  
11     definition are petroleum- and fossil-fuel derived gases such as propane, natural gas, liquefied  
12     natural gas, and methane that will be present in a gaseous state at ambient temperature and  
13     pressure.
- 14
- 15     2) *Petroleum Fuel or Fuel* – Means petroleum-based liquid products that are refined from crude  
16     oil specifically for fuel purposes. Fuel includes, but is not limited to, all grades of  
17     automotive gasoline, aviation gasoline, diesel, heating oils, and kerosene.

19      **1.3.3 Regulated Material Thresholds**

20

21     A site that stores or uses in the aggregate any chemical, chemical mixture, or waste material defined  
22     in Section 1.3.1 or 1.3.2 that exceeds the threshold quantity defined in Table 1 is subject to the  
23     provisions of the Wellfield Wellhead Protection Program. For the purposes of this Program manual,  
24     “use,” “uses,” or “used” means the material that is present at a facility at any one time, in addition to  
25     materials in storage. In determining the threshold quantity for a particular site, those chemicals  
26     defined in Section 1.4 are exempt and need not be considered when determining the threshold  
27     quantity.

30                        [The remainder of this page intentionally left blank]

<b>Table 1</b> <b>Chemical Category Thresholds</b>	
<b>Category of Material</b>	<b>Threshold Quantity<sup>a,b</sup></b>
<b>Hazardous Materials</b>	As Noted
Halogenated Solvents	10 gallons or 100 lbs
Carcinogenic Material	50 gallons or 400 lbs
Hazardous Substances	50 gallons or 400 lbs
Hazardous Wastes	30 gallons or 220 lbs
<b>Fuel<sup>c</sup></b>	50 gallons or 400 lbs <sup>d</sup>
<b>Petroleum Products<sup>c</sup></b>	50 gallons or 400 lbs <sup>d,e</sup> (for Section 5.1 Reporting Only)

<sup>a</sup>As defined in 1.3.1, a 10% by weight concentration threshold applies to each chemical category, except Hazardous Wastes and Petroleum Fuels. That is, products or chemical mixtures containing, before use, less than 10% by weight of a Hazardous Material need not be considered in the threshold quantity calculation.

<sup>b</sup>If a material is classified in more than one chemical category, the more restrictive threshold quantity shall apply.

<sup>c</sup>Petroleum Products or Fuels that are known to contain greater than 10% by weight of any of the three chemical categories of Hazardous Materials or are designated as a Hazardous Waste, as determined by reviewing the product's MSDS, or other information, shall be considered a Hazardous Material and regulated under that category (see also note b, above).

<sup>d</sup>For Petroleum Products and Fuel only, the threshold quantity determination is made based on the capacity of the largest single container or tank. That is, the threshold quantity is not triggered unless the facility stores Petroleum Products or Fuel in any single container or tank that has a capacity greater than 50 gallons.

<sup>e</sup>For Petroleum Products EXCEPT Fuel, this threshold quantity is for determining the applicability of Section 5.1 – Annual Hazardous Material Inventory Report. Petroleum Products not otherwise defined as a Hazardous Material or Fuel are not subject to Section 3 – Requirements and Recommendations.

2

3

#### 1.4 Exempt Uses and Materials

4

This section does not exempt any material or use from Fire Code regulations adopted by the City. Except as otherwise provided herein, the following materials are exempt from regulation and are not counted towards the threshold quantity determination of Section 1.3.3:

5

- 10    1) A Hazardous Material/ Fuel Exemption Request may be submitted to the City for uses of  
11      Hazardous Materials, or Fuels, that can be demonstrated to pose no threat to the  
12      groundwaters of the WHPA. These materials or uses may be exempted from regulation  
13      and added to the list of exempted materials or uses contained in this Section. The  
14      demonstration of no threat is the responsibility of the applicant seeking the exemption

- 1 and will be subject to review as specified by the City, including a process for appeal of  
2 the initial decision.
- 3 2) Petroleum Products EXCEPT Fuels that are not considered to be a Hazardous Material  
4 pursuant to Section 1.3.1, are subject only to the Hazardous Material Inventory Report  
5 required in Section 5.1. (Note: Fuels are subject to the applicable sections of this  
6 Manual, including Section 5.1.)
- 7 3) Hazardous Materials or Fuels offered for sale in their original sealed containers of five  
8 (5) gallons or less, including aerosol-based products. Sealed containers that are opened  
9 indoors at the retailer's premises for the sole purpose of adding pigments or other  
10 components and immediately resealed are also exempt under this provision.
- 11 4) (a) Hazardous Materials or Fuels in fuel tanks and fluid reservoirs permanently attached  
12 or connected to (i) a private or commercial motor vehicle (including bulk delivery  
13 vehicles) and used directly in the motoring operation of that vehicle, (ii) machinery,  
14 including but not limited to fuel, engine oil and coolants, and (iii) fuel, engine oil,  
15 coolants, and hydraulic fluids contained on-board and associated with the operation of  
16 aircraft or other aviation equipment.  
17 (b) This exemption does not apply to Hazardous Materials or Fuels (i) considered to be  
18 freight or cargo, (ii) that are contained in vehicles, trucks, or other equipment at facilities  
19 engaged in the sale, resale, leasing, or rental of automobiles, trucks, or other equipment,  
20 or (iii) at facilities engaged in the dismantling, salvaging, or scrapping of vehicles or  
21 equipment that have attached or connected fuel tanks and other fluid reservoirs that  
22 contain Hazardous Materials or Fuels at the time they are received at the facility.  
23 (c) For the non-exempt uses defined in paragraph (b), above, the threshold volumes  
24 identified in Table 1 are considered to be sitewide aggregate volumes, not the volume  
25 contained in a tank or fluid reservoir of an individual vehicle, truck, or piece of  
26 equipment.  
27 (d) For the non-exempt uses identified in (b)(ii) and (b)(iii), above, the areas of the  
28 facility used for the storage of vehicles or equipment shall meet the requirements of  
29 Section 3.8 – Storage, Maintenance, and Repair of Vehicles and Equipment and the  
30 Hazardous Material Inventory Report required in Section 5.1.
- 31 5) Hazardous Materials or Fuels contained in properly operating closed-loop units (e.g.,  
32 transformers, refrigeration units, hydraulic cylinders and reservoirs, etc.) that are not  
33 opened as part of routine use. This exemption does not apply to units located outdoors  
34 unless the unit is located on a roof, is located on a paved surface, or is located on an  
35 equipment pad that has secondary containment.
- 36 6) Fuel oil used in space heating systems.
- 37 7) All commonly used office supplies such as correcting fluid for typewriters, toner for  
38 computer printers, etc., where the supplies are purchased off-site for use on-site. The  
39 total quantity of exempt office supplies shall not exceed 55 gallons per functional area.  
40 Office supplies packaged in containers of five (5) gallons or less are exempt from the 55-  
41 gallon functional area limit.
- 42 8) Hazardous Materials or Fuels, including aerosol-based products, purchased for use onsite  
43 and packaged in comparable form and concentration as a product available for sale or use  
44 by the general public. Products containing halogenated solvents at concentrations greater  
45 than 10 percent (%) by weight are not exempt under this provision.
- 46 9) The storage, handling, and use of Hazardous Materials or Fuels for non-routine  
47 maintenance, repair of property, or equipment. The storage, handling, and use shall not  
48 exceed an aggregate of fifty-five (55) gallons or four hundred sixty (460) pounds at any  
49 time. Products containing halogenated solvents at concentrations greater than 10 percent  
50 (%) by weight are not exempt under this provision.

- 1           10) The temporary storage, handling, and use of Hazardous Materials or Fuels associated  
2           with onsite construction activities by third-party contractors.
- 3           11) The handling and application of fertilizer, plant growth retardants, and pesticides in  
4           accordance with accepted agronomic practices and manufacturer's label instructions.
- 5           12) The handling and application of aircraft deicing and pavement anti-icing products  
6           provided they are used in accordance with the manufacturer's label instructions.
- 7           13) The storage, handling, and use of Hazardous Materials or Fuel for medical and research  
8           laboratory uses, provided however, that the Hazardous Material or Fuel shall be stored,  
9           handled or used in containers not to exceed five (5) gallons or forty-five (45) pounds of  
10          each substance and the aggregate inventory of hazardous substances shall not exceed two  
11          hundred and fifty (250) gallons or twenty-one hundred (2,100) pounds.
- 12          14) A pipeline facility (including gathering lines) regulated under: (1) the Natural Gas  
13          Pipeline Safety Act of 1968, or (2) the Hazardous Liquid Pipeline Safety Act of 1979; or  
14          (3) which is an intrastate pipeline facility regulated under State laws comparable to the  
15          provisions of law referred to in (1) and (2) above.
- 16          15) Hazardous Materials or Fuel stored, handled, or used for emergency purposes. The  
17          duration of this exemption is limited to 90 days, unless otherwise approved by the City.
- 18          16) Fuel for emergency generators located at facilities that provide essential community  
19          services (hospitals, fire/life safety, police, public shelters, telephone systems, etc.), and  
20          emergency generators at public or private facilities that are used to provide back-up  
21          power supplies necessary to assure critical operations and life safety systems during  
22          failure of the primary power supply. This exemption applies to emergency generator  
23          installations that are equipped with double-walled fuel tanks, are equipped with the tanks  
24          that meet the secondary containment requirements of Section 3.3 – Indoor Storage Areas,  
25          or 3.5 – Outdoor Storage Areas, or installations equipped with underground fuel storage  
26          tanks.
- 27          17) Hazardous Materials or Fuels used and stored specifically for water treatment processes  
28          of public water systems and private systems for the same purposes when approved by the  
29          City.

30  
31

## **Section 2 Applicability of Wellhead Protection Area Regulations**

In order to establish the applicability of requirements, the applicant (in the case of a development permit) or the facility (in the case of routine reporting) must provide information on the Hazardous Materials Inventory form described in Section 5.1. Based on the results of the inventory, the applicant/facility may have no further requirements if:

- The Hazardous Materials or Fuels transported, stored, or used at the site are not mobile;
- The Hazardous Materials or Fuels transported, stored, or used at the site are exempt under Section 1.4, or
- The quantity of Hazardous Materials or Fuels transported, stored, or used onsite does not exceed specified threshold quantities in Table 1.

Figure 3 provides a simplified diagram for determining the applicability of the Wellhead Protection Program to an individual site or facility.

### **2.1 New Facilities**

#### **2.1.1 All Zones**

An application for development permit for commercial or industrial development involving site design review or a building permit for a new development<sup>2</sup> shall be reviewed for storage, use and transportation of Hazardous Materials, Petroleum Products, and Fuels as follows:

- 1) The application for development permit shall be reviewed to determine if there is/will be the presence of Hazardous Materials, Petroleum Products, and Fuels as defined in Section 1.3.1 – Regulated Hazardous Material Definitions and Section 1.3.2 – Petroleum Definition.
- 2) If the application for development permit includes a Hazardous Material, Petroleum Product, or Fuel as determined in subsection (1) above, then the applicant shall complete a Hazardous Material Inventory Report pursuant to methods described in Section 5.1 – Annual Hazardous Material Inventory Report.
- 3) A determination of the quantity of Hazardous Materials or Fuels inventoried as provided in subsection (2) above shall be completed pursuant to Section 1.3.1, 1.3.2, and Section 1.4 – Exempt Uses and Materials.
- 4) If the determination made in subsection (3) above indicates that the quantity of any proposed Hazardous Materials or Fuels exceed the thresholds defined in Table 1, the functional area(s) (defined in Section 3.2) of the facility included in the development proposal that will include the storage, handling, use, or transportation of Hazardous Materials or Fuels shall meet the applicable requirements of Section 3- Requirements and Recommendations, unless the provisions of sections 2.1.2, and 2.1.3, below apply.

---

<sup>2</sup> For the purposes of this Manual, a "new development" shall mean the intended construction of one or more buildings on land that is not currently occupied by buildings or other structures suitable for any industrial or commercial purpose, including the situation where all prior buildings or structures on the land have been demolished in preparation for a wholly new use of the land. All other planned construction, alteration, or reconstruction at a commercial or industrial facility, whether currently in operation or where operations have been suspended or halted but existing buildings or others structures are suitable for industrial or commercial use, with or without alteration, reconstruction and new construction, shall be considered an "existing development" controlled by the provisions of Section 2.2.

1      **2.1.2 Special Requirements for Certain New Development in Zone 1**

2      This section applies to certain new development located in Zone 1 of the WHPA (see Figure 2).

4      If the determination made in subsection 2.1.1(3) above indicates that the quantity of any proposed  
5      Hazardous Materials or Fuels exceed ten (10) times the thresholds defined in Table 1, the  
6      functional areas (defined in Section 3.2) of the facility included in the development proposal that  
7      will be used for the storage, handling, use, or transportation of Hazardous Materials or Fuels shall  
8      meet the applicable requirements of Section 3 - Requirements and Recommendations, and the  
9      following additional requirements, as applicable:

- 10     1. Loading and Unloading Areas. The requirements of Section 3.4.1 are superceded with  
11     the requirement that all designated Hazardous Material or Fuel loading and unloading  
12     areas must employ the use of one or more of the following structural controls defined in  
13     the section on ***BMPs for Loading and Unloading Areas For Liquid or Solid Material***  
14     contained in **Stormwater Management Manual for Western Washington-Volume IV:  
15     Source Control BMPs** as published by the Washington State Department of Ecology,  
16     August 2001 (Ecology Publication No. 99-14)<sup>3</sup>:  
17        (a) Indoor transfer facilities,  
18        (b) Covered loading docks, or  
19        (c) Loading docks equipped with door skirts.  
20  
21     2. Annual Inspection. The City reserves the right to perform annual inspections of the  
22     facility.

25      **2.1.3 Special Requirements for All New Development in Zone 1**

26      This section applies to all new development located in Zone 1 of the WHPA (see Figure 2).

28      Prior to the first anniversary of the facility completion, and at least annually thereafter, the  
29      owner/operator of the facility shall provide training to all facility personnel that handle Hazardous  
30      Materials or Fuels. This training may be performed in-house or externally as may be offered by  
31      sponsoring organizations or businesses located in the WHPA. At the minimum, the training must  
32      include the basic elements and recordkeeping defined in Section 3.9.

34      **2.2 Modified Facilities**

36      **2.2.1 All Zones**

37      An application for development permit for commercial or industrial development involving site  
38      design review or a building permit for an alteration to an existing development, including new or  
39      reconstructed facilities at an existing development, shall be reviewed for storage, use and  
40      transportation of Hazardous Materials, Petroleum Products, and Fuels as follows:

- 42        1) The application for development or building permit shall be reviewed to determine if  
43        there is/will be the presence of Hazardous Materials, Petroleum Products, and Fuels in  
44        those areas addressed in the development application or building permit as defined in  
45        Section 1.3.1 – Regulated Hazardous Material Definitions and Section 1.3.2 – Petroleum  
46        Definition.

---

<sup>3</sup> The current versions of these BMPs at the time of Manual publication are found in Appendix D. However, the version of these BMPs as published by the Washington Department of Ecology in Ecology Publication No. 99-14 shall be the controlling document at the time and application for development permit or building permit is filed.

- 1
- 2) If the application for development or building permit includes a Hazardous Material or  
3 Petroleum Product, or Fuel as determined in subsection (1) above, then the applicant shall  
4 complete a Hazardous Material Inventory Report for the entire facility, including  
5 proposed quantities of Hazardous Materials, Petroleum Products, or Fuels to be handled  
6 or used in the portion of the facility addressed by the development or building permit  
7 application, pursuant to methods described in Section 5.1 – Annual Hazardous Material  
8 Inventory Report<sup>4</sup>.
- 9
- 10 3) A determination of the quantity of Hazardous Materials or Fuels inventoried as provided  
11 in subsection (2) above shall be completed pursuant to Section 1.3.1, 1.3.2, and Section  
12 1.4.
- 13
- 14 4) If the determination made in subsection (3) above indicates that the aggregate facility-  
15 wide quantity of any Hazardous Material or Fuel will exceed the thresholds defined in  
16 Table 1, the functional area(s) (defined in Section 3.2) that are located in the portion of  
17 the facility specifically covered by the development or building permit proposal shall  
18 meet the applicable requirements of Section 3 (i.e., only the functional area(s) that will be  
19 included in the work specified in the plans and specifications AND will be used for the  
20 storage, handling, use, or transportation of Hazardous Materials or Fuels are subject to  
21 the requirements of Section 3 as part of the permitting process).
- 22
- 23 If the modifications covered by the development or building permit will involve  
24 modification of an existing on-site transportation route as defined in Section 3.2, only the  
25 portion of the transportation route addressed in the application shall be subject to the  
26 applicable requirements of Section 3. Routine or preventative maintenance activities  
27 performed to on-site transportation routes shall not be deemed a facility modification  
28 subject to the requirements of this Section.
- 29
- 30 5) If the determination made in subsection (3) above indicates that the aggregate facility-  
31 wide quantity of any Hazardous Material or Fuel will exceed the thresholds defined in  
32 Table 1, the portion of the facility NOT included in the development or building permit  
33 proposal shall follow the procedures defined in Section 2.3, Item 4), below.
- 34

35 **2.2.2 Special Requirements for Modified Facilities in Zone 1**

36 Prior to the first anniversary of the modified facility completion, and at least annually thereafter,  
37 the owner/operator of the facility shall provide training to all facility personnel that handle  
38 Hazardous Materials or Fuels. This training may be performed in-house or externally as may be  
39 offered by sponsoring organizations or businesses located in the WHPA. At the minimum, the  
40 training must include the basic elements and recordkeeping defined in Section 3.9.

---

4 If a facility has previously submitted an Annual Report pursuant to Section 5.1, it may issue an amended  
Annual Report that addresses the Hazardous Materials, Petroleum Products, and Fuels that will be stored,  
handled, used, or transported in the modified portion of the facility that is the subject of the development or  
building permit application.

1      **2.3 Existing Facilities**

2      **2.3.1 All Zones**

3      Annually, facility owners, operators, or tenants<sup>5</sup> at existing facilities shall review whether it  
4      handles Hazardous Materials, Petroleum Products, or Fuels, and determine whether the  
5      requirements of WHPA apply:

- 6
- 7      1) Review Hazardous Material Inventory completed pursuant to methods described in  
8              Section 5.1 – Annual Hazardous Material Inventory Report.
- 9
- 10     2) A Determination of the quantity of Hazardous Materials or Fuels inventoried as provided  
11              in subsection (1) above shall be completed pursuant to Section 1.3.1, 1.3.2, and Section  
12              1.4.
- 13
- 14     3) If the determination made in subsection (2), above indicates that the quantity of any  
15              Hazardous Materials or Fuels exceed the thresholds defined in Table 1, the facility is  
16              subject to the applicable requirements of Section 3- Requirements and  
17              Recommendations.
- 18
- 19     4) The onsite functional area(s) defined in Section 3.2 used for the storage, handling, use, or  
20              transportation of Hazardous Materials or Fuels that exceed the thresholds defined in  
21              Table 1, but do not conform with the applicable requirements of Section 3 are considered  
22              to be *non-conforming use(s)* at the time they become subject to the requirements of  
23              Section 3.
- 24
- 25     5) The timeframe(s) that the onsite non-conforming use(s) are required to comply with the  
26              functional requirements pursuant to Section 3 are defined in Table 2.
- 27
- 28     6. Requests for Extension. A facility may seek no more than two consecutive 1-year  
29              extensions to any of the non-conforming use compliance deadline(s) in Table 2 upon  
30              reasonable demonstration to the City that it will be unable to meet a deadline. The  
31              facility seeking the extension must prepare a written request to the City no later than 30-  
32              days prior to the compliance deadline explaining the need for the extension.  
33
- 34
- 35     A demonstration may be based on financial condition, engineering considerations, or  
36              other extenuating factors that make necessary facility operational or physical  
37              improvements infeasible to complete before the compliance deadline. If financial  
38              considerations are cited as a reason for the extension request, the facility may be asked to  
39              produce auditable financial statements demonstrating its financial inability to meet the  
40              compliance deadline.
- 41
- 42     To be granted an extension, the facility must document that it has been taking all  
43              practicable steps to plan for and meet the non-conformance deadline during the preceding  
44              12 months prior to submitting its request for extension. The extension request must also  
45              include a schedule that defines when the facility will be in compliance with the deadline.
- 46
- 47     The City reserves the right to deny an extension request if, in its opinion, the facility  
48              should be capable of meeting the compliance deadline.

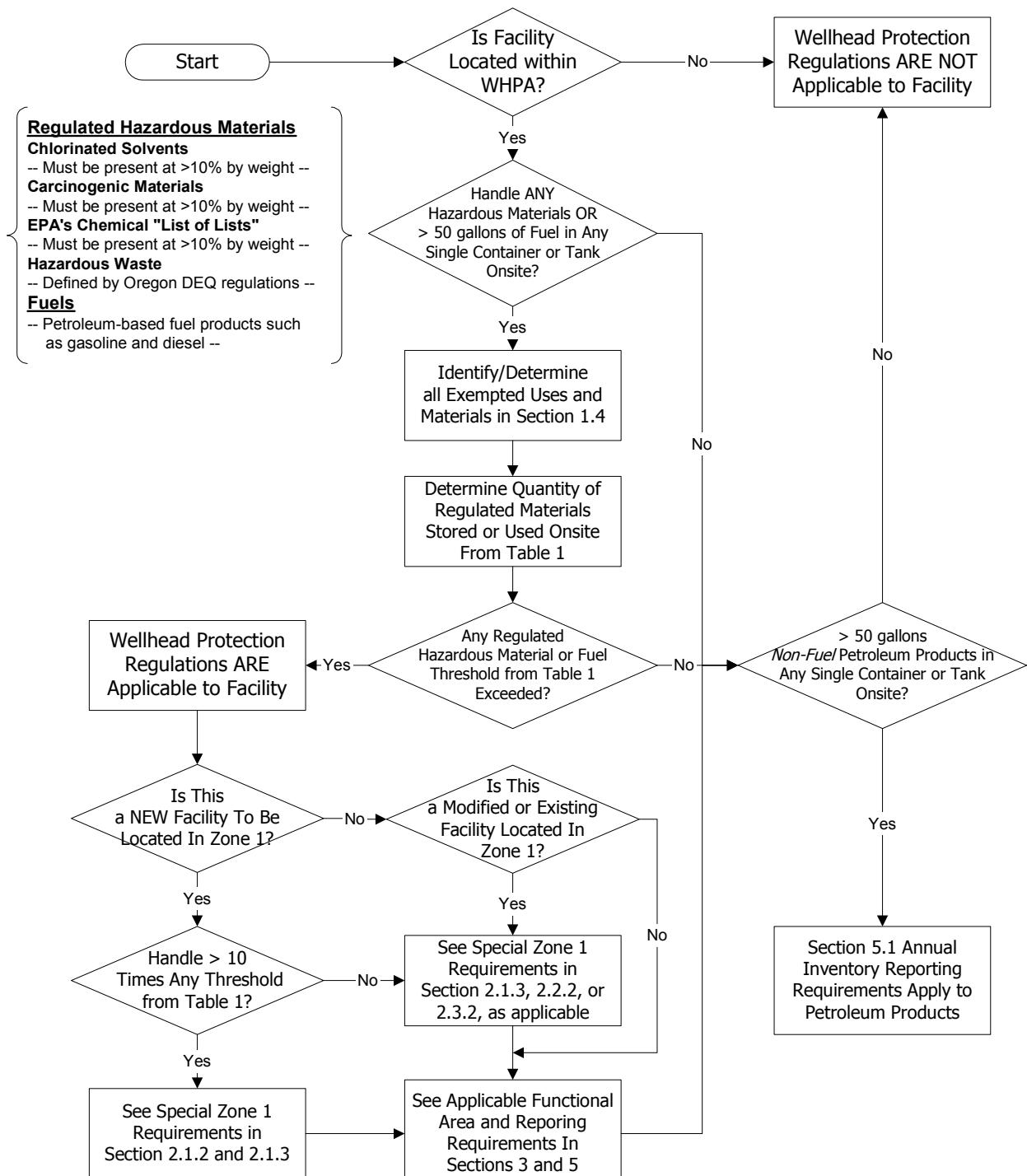
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<sup>5</sup> For non-owner operated facilities, the reporting obligation is the responsibility of the facility operator or tenant.

Table 2 Non-Conforming Uses - Implementation Schedule	
	Conformance Deadline
<b>Phase 1</b>	
1. All Hazardous Material and Fuel Container Storage Less Than 10 Times Table 1 Thresholds,	6/30/05 or 12 Months After Non-Conforming Use Becomes Subject to Regulation, Whichever is Later
2. All Intra-Site Hazardous Material and Fuel Transfer Operations	
<b>Phase 2</b>	
1. All Hazardous Material and Fuel Container Storage Greater Than 10 Times Table 1 Thresholds,	6/30/06 or 12 Months After Non-Conforming Use Becomes Subject to Regulation, Whichever is Later
2. Hazardous Material and Fuel Container Load/Unload Operations	
<b>Phase 3</b>	
1. All Hazardous Material and Fuel Tank Management,	6/30/07 or 24 Months After Non-Conforming Use Becomes Subject to Regulation, Whichever is Later
2. Hazardous Material and Fuel Tanker/Railcar Load/Unload Operations	
<b>Phase 4</b>	
1. Hazardous Material Transportation Routes	6/30/08 or 24 Months After Non-Conforming Use Becomes Subject to Regulation, Whichever is Later

### **2.3.2 Special Requirements for Facilities Located in Zone 1**

Prior to the first anniversary of the existing facility becoming subject to the requirements of the Wellhead Protection Program, and at least annually thereafter, the owner/operator of the facility shall provide training to all facility personnel that handle Hazardous Materials or Fuels. This training may be performed in-house or externally as may be offered by sponsoring organizations or businesses located in the WHPA. At the minimum, the training must include the basic elements and recordkeeping defined in Section 3.9.



**Figure 3**  
**Wellhead Protection Program**  
**Applicability Screening Diagram**

## Section 3 Requirements and Recommendations

### 3.1 General Requirements

#### 3.1.1 Coordination with State and Federal Requirements

Where state or federal regulations (including the Uniform Fire Code, as adopted or amended by the City) requires the use of best management practices (BMPs), or other defined controls for the use, storage, or management of Hazardous Materials or Fuels, the City shall accept a facility's conformance with the state or federal requirements as satisfying the City's requirements for the protection of groundwaters of the WHPA, provided that the facility can demonstrate that the minimum standards of Section 3 of this manual are being satisfied with the equivalent controls or procedures.

Where state or federal regulations (including the Uniform Fire Code, as adopted or amended by the City) requires the preparation of spill or emergency response plans, training programs, recordkeeping, or reporting, the City shall accept a facility's conformance with the state or federal requirements as satisfying the City's requirements for the protection of groundwaters of the WHPA, provided that the training requirements of Section 3.9 (if applicable to the facility) and the reporting information required in Section 5.2 (applicable to all facilities) is satisfied.

#### 3.1.2 Best Management Practices

Best Management Practices (BMPs) are schedules of activities, maintenance procedures, and structural and/or managerial practices, that when used singly or in combination, prevent or reduce the release of Hazardous Materials or Fuel to groundwaters of the Wellhead Protection Area.

*Source control* BMPs are structures or operations that are intended to prevent Hazardous Materials or Fuels from coming into contact with stormwater or groundwater through physical separation of areas or careful management of activities that are potential sources of Hazardous Materials or Fuels:

- *Operational Source Control BMPs* are non-structural practices that prevent or reduce Hazardous Materials or Fuels from entering stormwater or groundwater. Examples include formation of a pollution prevention team, good housekeeping practices, preventive maintenance procedures, spill prevention and cleanup, employee training, inspections of Hazardous Material or Fuel sources, and record keeping. They can also include process changes, raw material/product changes, and recycling wastes.
- *Structural Source Control BMPs* are physical, structural, or mechanical devices or facilities that are intended to prevent Hazardous Materials or Fuel from entering stormwater or groundwater. Examples of Structural Source Control BMPs typically include:
  - ✓ Enclosing and/or covering the potential Hazardous Material or Fuel source (e.g., within a building or other enclosure, a roof over storage and working areas, temporary tarp, etc.).
  - ✓ Physically segregating the Hazardous Material or Fuel source to prevent run-on of uncontaminated stormwater.
  - ✓ Devices that direct only contaminated stormwater to appropriate treatment BMPs (e.g., discharge to a sanitary sewer if allowed by the local sewer authority).

1      **3.1.3 Distinction Between Requirements and Recommendations**

2  
3      This document describes requirements (i.e., those measures which must be implemented) and  
4      recommendations (those which are not mandatory). Use of the word 'Shall' means that the requirement is  
5      mandatory. Use of the words 'May' and 'Should' are permissive.

6      **3.1.4 Required Operational Source Control BMPs**

7  
8      The following *operational source control BMPs* shall be implemented at establishments that exceed the  
9      regulated material quantity thresholds defined in Section 1.3.3.

10     *Pollution Prevention Team*

- 11     • Assign one or more individuals to be responsible for onsite Hazardous Material or Fuel  
12     management. If appropriate, hold periodic meetings to review the overall operation of the BMPs.  
13     Establish responsibilities for inspections, operation and maintenance, and availability for emergency  
14     situations. Train all team members in the operation, maintenance and inspections of BMPs, and  
15     reporting procedures.

16     *Good Housekeeping*

- 17     • Promptly contain and clean up Hazardous Material or Fuel leaks and spills.
- 18     • Promptly repair or replace all substantially cracked or otherwise damaged paved secondary  
19     containment and any other drainage areas, which are subjected to Hazardous Material or Fuel leaks  
20     or spills.
- 21     • Promptly repair or replace all leaking connections, pipes, hoses, valves, etc. which can contaminate  
22     groundwater.

23     *Preventive Maintenance*

- 24     • Prevent the discharge of Hazardous Materials or Fuels to ground or surface water, or to storm drains  
25     which discharge to surface water, or to the ground.
- 26     • Do not connect floor drains in potential Hazardous Material or Fuel source areas to storm drains,  
27     surface water, or to the ground.
- 28     • Construct impervious areas that are compatible with the materials handled. Portland cement  
29     concrete, asphalt, or equivalent material may be considered.

30     *Spill Prevention and Cleanup*

- 31     • Immediately upon discovery, stop, contain, and clean up all spills.
- 32     • Have spill containment and cleanup kits readily accessible.
- 33     • If a spill has reached or may reach a sanitary or a storm sewer, groundwater, or surface water notify  
34     the appropriate authority immediately.

35      **3.1.5 Recommended Operational Source Control BMPs**

36      The following *operational source control BMPs* are recommended, but not required, at the establishments  
37      that exceed the regulated material quantity thresholds defined in Section 1.3.3.

38     *Good Housekeeping*

- 39     • Clean up Hazardous Material or Fuel liquid leaks and spills in impervious uncovered containment  
40     areas at the end of each working day.
- 41     • Use solid absorbents, e.g., clay and peat absorbents and rags for cleanup of liquid spills/leaks, where  
42     practicable.

- 1     • Recycle materials, such as oils, solvents, and wood waste, to the maximum extent practicable.
- 2

3     *Preventive Maintenance*

- 4     • Conduct all oily parts cleaning, steam cleaning, or pressure washing of equipment or containers  
5       inside a building, or on an impervious contained area, such as a concrete pad. Direct contaminated  
6       stormwater from such an area to a sanitary sewer where allowed by local sewer authority, or to other  
7       approved treatment.
- 8     • Do not pave over contaminated soil unless it has been determined that ground water has not been  
9       and will not be contaminated by the soil.
- 10    • Sweep paved material handling and storage areas regularly as needed, for the collection and disposal  
11      of contaminated dust and hazardous material debris that could contaminate stormwater. Do not hose  
12      down Hazardous Materials or Fuel from any area to the ground, storm drain, conveyance ditch, or  
13      receiving water unless necessary for dust control purposes to meet air quality regulations and unless  
14      the Hazardous Materials or Fuels are conveyed to a treatment system approved by the local  
15      jurisdiction.
- 16    • Clean oils, debris, sludge, etc., from all BMP systems regularly, including catch basins,  
17      settling/detention basins, oil/water separators, boomed areas, and conveyance systems, to prevent  
18      the contamination of stormwater.
- 19    • Use drip pans to collect leaks and spills from industrial/ commercial equipment such as cranes at  
20      ship/boat building and repair facilities, log stackers, industrial parts, trucks and other vehicles, which  
21      are stored outside.
- 22    • At regulated facilities, drain oil and fuel filters before disposal. Discard empty oil and fuel filters,  
23      oily rags and other oily solid waste into appropriately closed and properly labeled containers, and in  
24      compliance with the Uniform Fire Code.
- 25    • For the storage of liquids, use containers, such as steel and plastic drums that will be compatible  
26      with the liquid stored, that are rigid and durable, corrosion resistant to the weather and fluid content,  
27      non-absorbent, water tight, rodent-proof, and equipped with a close fitting cover.
- 28    • For the temporary storage of solid wastes contaminated with Hazardous Materials or Fuels, use  
29      dumpsters, garbage cans, drums and comparable containers, which are durable, corrosion resistant,  
30      non-absorbent, non-leaking, and equipped with either a solid cover or screen cover to prevent  
31      littering. If covered with a screen, the container should be stored under a lean-to or equivalent  
32      structure.
- 33    • Where exposed to stormwater, use containers, piping, tubing, pumps, fittings, and valves that are  
34      appropriate for their intended use and for the contained liquid.
- 35    • Where feasible, store Hazardous Materials or Fuels inside a building or under a cover and/or  
36      containment.
- 37    • Minimize use of toxic cleaning solvents, such as chlorinated solvents, and other toxic chemicals.
- 38    • Use environmentally safer raw materials, products, additives, etc. such as substitutes for zinc used in  
39      rubber production.
- 40    • Recycle waste materials such as solvents, coolants, oils, degreasers, and batteries to the maximum  
41      extent feasible.
- 42    • Empty drip pans immediately after a spill or leak is collected in an uncovered area.
- 43    • Stencil warning signs at stormwater catch basins and drains, e.g., "Dump no waste."

44     *Spill Prevention and Cleanup*

- 45     • Immediately upon discovery, stop, contain, and clean up all spills.
- 46     • Do not flush absorbent materials or other spill cleanup materials to a storm drain. Collect the  
47      contaminated absorbent material as a solid and place in appropriate disposal containers.

- 1     • Place and maintain emergency spill containment and cleanup kit(s) at outside areas where there is a  
2       potential for liquid Hazardous Material or Fuel spills. These kits should be appropriate for the  
3       materials being handled and the size of the potential spill.  
4     • Spill kits should include appropriately lined drums, absorbent pads, and granular or powdered  
5       materials for neutralizing acids or alkaline liquids where applicable. In fueling areas: absorbent  
6       should be packaged in small bags for easy use and small drums should be available for storage of  
7       absorbent and/or used absorbent. Spill kits should be deployed in a manner that allows rapid access  
8       and use by employees.

9

10    *Employee Training*

- 11     • Train all employees that work in Hazardous Material or Fuel source areas in identifying material  
12       sources and in understanding Hazardous Material or Fuel control measures, spill response  
13       procedures, and environmentally acceptable material handling practices - particularly those related  
14       to vehicle/equipment liquids such as fuels, and vehicle/equipment cleaning.

15

16

17    **3.2 Identification of Functional Areas**

18

19    The facility shall identify all functional areas that will be present on the proposed development or existing  
20       site. These "functional areas" are associated with certain kinds of Hazardous Material or Fuel management  
21       activity. Functional areas may include (but are not limited to):

- 22     • **Storage areas** include work and process areas where Hazardous Materials or Fuels are stored.  
23       These include both indoor and outdoor areas.
- 24
- 25     • **Loading/unloading areas** are any areas that: 1) are designed (size, width, etc.) to accommodate a  
26       truck/trailer being backed up to or into them, and 2) are expected to be used specifically to receive  
27       or load Hazardous Materials to/from trucks or trailers. Loading/unloading areas may also receive or  
28       load Hazardous Materials to/from rail cars.
- 29
- 30     • **Intra-site transfer areas** are any areas located within a site that are used for transferring Hazardous  
31       Materials or Fuels to/from mobile storage devices (such as portable tanks, tanker trucks, or vacuum  
32       trucks) to/from processing equipment reservoirs or to other storage devices. Intra-site transfer areas  
33       do not include areas used for fueling vehicles with mobile fueling/service rigs.
- 34
- 35     • **Transportation routes** are any paths used to transport Hazardous Materials onto, off of, or within a  
36       site. Transportation routes also include public transportation routes such as streets and alleys, and  
37       publicly or privately owned rail lines.
- 38
- 39     • **Fuel dispensing facilities** are defined as the area where Fuel is transferred from bulk storage tanks  
40       to vehicles, equipment, and/or mobile containers (including fuel islands, above-ground fuel tanks,  
41       fuel pumps, and the surrounding pad). This applies to bulk terminals, gas stations and single-pump  
42       fueling operations. Fuel dispensing facilities do not include mobile fueling/service rigs used for  
43       fueling vehicles or emergency generator installations equipped with integrated fuel tanks.

44

45    If the total quantity of an individual category of Hazardous Material stored or handled in a specific functional  
46       area (such as a maintenance area) does not exceed 25 percent of the facility quantity threshold for the  
47       material defined in Table 1, or 50 gallons of Fuel in any single tank or container, the functional requirements  
48       of Section 3 are not required for that specific functional area.

1

2 **3.3 Indoor Storage Areas**

3

4 The requirements of this section apply to Hazardous Material storage activities conducted inside a  
5 building. See Section 3.3.1.2 for the applicability of this section to the indoor storage of Fuel.

6

7 **3.3.1 General Requirements**

8

9 (Note: The requirements in this section do not modify or exempt any material or substance otherwise  
10 regulated by the Uniform Fire Code<sup>6</sup> as adopted by the City.)

11

12 **3.3.1.1 Hazardous Materials**

13 Hazardous Materials (as defined in Section 1.3.1) that are stored indoors in excess of the applicable threshold  
14 amounts defined in Table 1 of Section 1.3.3 shall be stored in areas equipped with spill control and  
15 secondary containment as defined by the Uniform Fire Code, Article 8003.1.3. (Note: The capacities for  
16 liquids and solids requiring secondary containment pursuant to Article 8003.1.3.3 are modified by this  
17 document to be consistent with the threshold amounts defined in Table 1 of Section 1.3.3).

18 Unless otherwise required by the Uniform Fire Code as adopted by the City, if the total quantity of and  
19 individual category of Hazardous Material stored or handled in a specific functional area (such as a  
20 maintenance area) does not exceed 25 percent of the quantity threshold for the material defined in Table 1,  
21 spill control and secondary containment is not required in that specific functional area.

22 Consistent with the Uniform Fire Code as adopted by the City, facilities may alternatively use equivalent  
23 means of providing spill control and secondary containment in lieu of Article 8003.1.3.3 for indoor storage,  
24 including:

- 25
- 26 • Article 8001.10.6 – Hazardous materials storage cabinets,
  - 27 • Article 8003.1.3.4 – Containment pallets (unless expressly prohibited by the Uniform Fire Code), or
  - 28 • Other equivalent means defined in Articles 79 or 80 of the Uniform Fire Code.

29 Unless otherwise required by the Uniform Fire Code as adopted by the City, facilities may use the following  
30 equivalent means of providing spill control and secondary containment in lieu of conforming to Article  
31 8003.1.3.3 for indoor storage:

- 32
- 33 • Double-walled tanks or containers, or
  - 34 • Other devices that provide tank or container-specific secondary containment (such as portable spill  
35 containment devices or shelters, overpack containers, etc.) that provide containment for 110 percent  
36 of the volume of the largest single container, or 10 percent of the volume of the combined volume of  
37 containers, whichever is greater.

38

39 **3.3.1.2 Fuels**

40 The requirements of Section 3.3 do not apply to the indoor storage of Fuel.

41 [Advisory Note Only: Facilities should note that the Uniform Fire Code, as adopted by the City, might  
42 impose compliance requirements for the indoor storage of Fuels. Facilities are directed to the Uniform Fire  
43 Code to determine applicable requirements.]

44

45

46

47

48

---

<sup>6</sup> Uniform Fire Code; 2000 Edition; Western Fire Chiefs Association, unless the City has adopted a different code version.

1      **3.3.2 Additional Requirements**

2      **Floor Drains**

3      Do not connect floor drains in or near indoor Hazardous Material storage or use areas to storm drains or to  
4      surface water. Floor drains are to be sealed or removed to prevent liquid entry, piped to the sanitary sewer  
5      (with appropriate shut-off valves), be blind sumps, or be directed to additional containment or treatment  
6      systems.

7      **Liquid Tight Surfaces**

8      All secondary containment devices shall be constructed of impervious materials or be coated with a  
9      chemical resistant coating (CRC) system that is compatible with the Hazardous Material being stored and  
10     is compatible with and will adhere to the structural aspect of the containment system (e.g., concrete,  
11     asphalt, etc.).

12     Impervious surfaces may consist of various fabricated metal, plastic, or synthetic materials, or be coated  
13     concrete, coated asphalt pavement, synthetic liners, or other materials. Synthetic lining systems such as a  
14     flexible membrane liner (FML) shall use materials capable of achieving an installed permeability of less than  
15     or equal to  $1 \times 10^{-6}$  cm/sec. Installation of CRC systems shall follow the coating manufacturer's  
16     recommendations for surface preparation, application methods, curing, and coating thickness for the type of  
17     intended service.

18      **3.3.3 Recommended Operational or Structural Source Control BMPs**

19      Not Applicable.

20      **3.4 Loading And Unloading Areas**

21      The requirements in this section apply to facilities with a Hazardous Material transfer area. Loading/unloading  
22      may occur at loading/unloading docks, bay doors, and any other building access point(s) with the size, width,  
23      etc., to accommodate a truck/trailer being backed up to, or into it. This section also applies to *Intra-site transfer*  
24      areas defined in Section 3.2.

25      See Section 3.4.1.2 for the applicability of this section to the loading and unloading of Fuels.

26      **3.4.1 General Requirements**

27      **3.4.1.1 Hazardous Materials**

28      Facilities with Hazardous Material loading and unloading areas shall follow the section on ***BMPs for Loading***  
29      and ***Unloading Areas For Liquid or Solid Material*** contained in **Stormwater Management Manual for**  
30      **Western Washington-Volume IV: Source Control BMPs** as published by the Washington State Department  
31      of Ecology, August 2001 (Ecology Publication No. 99-14)<sup>7,8,9</sup>.

---

<sup>7</sup> For the purposes of this manual, all reference to the Washington State Department of Ecology in the Appendix of this manual should be interpreted as either the Oregon Department of Environmental Quality (DEQ), or the Bureau of Environmental Services.

<sup>8</sup> A copy of the BMP is contained in Appendix D of this document.

<sup>9</sup> The BMPs in this section and other sections of this manual may make reference to the term 'pollutant,' 'pollutants' or other terms used in the context of stormwater management. For the purposes of this manual, only pollutants that

1  
2     **3.4.1.2 Fuels**

3     The requirements of Section 3.4.1.1, 3.4.2, and 3.4.3 do not apply to loading and unloading areas used for Fuels.  
4     See Section 3.7 for applicable requirements for Fuel Dispensing Facilities.

5  
6     [Advisory Note Only: Areas used for the loading and unloading of Fuel might be subject to requirements  
7     imposed by the Uniform Fire Code, as adopted by the City. Facilities are directed to that reference to determine  
8     applicable requirements. Facilities located within the City of Portland might also be subject the requirements of  
9     the *Stormwater Management Manual*, published by the City of Portland Bureau of Environmental Services.  
10   Facilities should check that document to determine potential applicability requirements.]

11  
12     **3.4.2 Additional Requirements**

13     The following additional requirements apply to facilities with Hazardous Material loading and unloading areas,  
14     including intra-site transfer areas:

15  
16     **Paved Surfaces and Spill Containment**

17  
18     A paved area shall be placed underneath and around the area where Hazardous Material loading and  
19     unloading activities will be conducted. If drainage from a loading or unloading area can enter a stormwater  
20     conveyance system, drain covers, absorbent booms, diking material sufficient to isolate spilled material, or a  
21     quick-closing valve and proper signage shall be provided.

22  
23     **Spill Containment Inspection Required**

24  
25     This requirement does not apply at facilities that use Hazardous Material loading and unloading areas that are  
26     equipped (a) with a cover, or (b) have loading docks equipped with skirts.

27  
28     If drainage from a Hazardous Material loading or unloading area can enter a stormwater system in the  
29     immediate proximity where Hazardous Material loading and unloading operations are performed, the facility  
30     operator shall arrange for an inspection by the City to confirm that required transfer procedures are in place  
31     and that required spill containment devices, if applicable, are installed and function adequately to isolate the  
32     storm drain inlet(s). This inspection, if not performed during a routine inspection by the City, may have a fee  
33     assessed pursuant to the Schedule of Fees established by the City.

34  
35     **Signage**

36  
37     The following requirements apply to all Hazardous Material transfer areas/loading docks. Signage shall be  
38     provided and shall be plainly visible from all material transfer activity areas. More than one sign may be  
39     needed to accommodate large transfer areas. Signage shall be provided at the material transfer area that is  
40     plainly visible and water resistant, and shall include the following information:

- 41  
42       Transfer procedures (i.e., instructions for operation)  
43       Safety precautions  
44       Immediate spill response procedures  
45       Emergency contacts and telephone numbers

---

46  
are also defined as a Hazardous Material or Fuel pursuant to Section 1.3 need be considered when applying the  
required structural or operational source control BMPs.

1      **3.4.3 Recommended Operational or Structural Source Control BMPs**

2  
3    This section contains *recommended* operational or structural source control BMPs for Hazardous Material  
4    loading/unloading facilities.

5  
6    Sections 3.4.1.1, 3.4.2, and this section are *recommended* operational or structural source control BMPs for  
7    Fuel loading/unloading facilities.

8  
9      **Drainage**

10     It is recommended that the first three (3) feet of the paved area measured from the building or dock face, be  
11     hydraulically isolated through grading, berms, or drains to prevent uncontaminated stormwater running onto  
12     the area and potentially conveying Hazardous Materials away from the paved area. Drainage from the  
13     hydraulically isolated area should be directed to an approved conveyance system, sump, catch basin or other  
14     containment device, sanitary sewer, or authorized pretreatment facility.

15  
16      **Pavement Coatings**

17     Some materials can react with asphalt pavement and deteriorate its integrity. It is therefore preferable to  
18     pave the area with Portland cement concrete. If the area is already paved with asphalt, an asphalt sealant  
19     should be applied to the pavement surface. Whichever paving material is used, the paved surface should be  
20     properly maintained to prevent gaps and cracks.

21  
22      **3.5 Outdoor Storage Areas**

23     The requirements in this section apply at regulated facilities that have exterior storage of containerized  
24     (including tanks) liquid and mobile solid Hazardous Materials and Fuels.

25     If the total quantity of an individual category of Hazardous Material stored or handled in a specific outdoor  
26     storage area does not exceed 25 percent of the quantity threshold for the material defined in Table 1, or 50  
27     gallons of Fuel in any single tank or container, the requirements of this section do not apply to that functional  
28     area.

29     These requirements do not apply to underground storage tanks.

30  
31      **3.5.1 General Requirements**

32  
33      **3.5.1.1 Hazardous Materials**

34     Facilities that have exterior storage of liquid Hazardous Materials in containers in excess of the material quantity  
35     thresholds in Table 1 shall follow the section on ***BMPs for Storage of Liquid, Food Waste, or Dangerous***  
36     ***Waste Containers*** contained in **Stormwater Management Manual for Western Washington-Volume IV:**  
37     **Source Control BMPs** as published by the Washington State Department of Ecology, August 2001 (Ecology  
38     Publication No. 99-14)<sup>10</sup>. The applicability of the referenced BMP is modified herein as follows – Covered  
39     storage areas are not required as an “applicable structural source control BMP,” provided that all the additional  
40     requirements of Section 3.5.2 that are applicable to the storage area are satisfied.

41  
42     <sup>10</sup> For the purposes of this manual, all reference to the Department of Ecology should be interpreted as either the  
43     Oregon Department of Environmental Quality (DEQ), or the Bureau of Environmental Services.

44  
45     This section does not apply to food waste unless they are defined as Hazardous Materials in Section 1.3. The use of  
46     the word “Dangerous Waste” means any “Hazardous Waste” defined by the DEQ pursuant to OAR 340-101.

1 Facilities that have exterior storage of liquid Hazardous Materials in tanks in excess of the material quantity  
2 thresholds in Table 1 shall follow the section on ***BMPs for Storage of Liquids in Permanent Above Ground***  
3 ***Tanks*** contained in **Stormwater Management Manual for Western Washington-Volume IV: Source**  
4 **Control BMPs** as published by the Washington State Department of Ecology, August 2001 (Ecology  
5 Publication No. 99-14).

6 Facilities that have exterior storage of mobile solid Hazardous Materials in excess of the material quantity  
7 thresholds in Table 1 shall follow the section on ***BMPs for Storage or Transfer (outside) of Solid Raw***  
8 ***Materials, By-Products, or Finished Products*** contained in **Stormwater Management Manual for Western**  
9 **Washington-Volume IV: Source Control BMPs** as published by the Washington State Department of  
10 Ecology, August 2001 (Ecology Publication No. 99-14).

### 13 **3.5.1.2 Fuels**

14 Except as noted below, facilities that store Fuels outdoors in containers or tanks with individual capacities  
15 greater than 50 gallons shall follow Section 3.5.1.1 and Section 3.5.2, as applicable, to the individual  
16 functional area.

17 Facilities that store Fuels in accordance with plans or programs implemented pursuant to other prevailing  
18 local, state, or federal regulations such as a Spill Prevention Control and Countermeasures (SPCC) plan, a  
19 Stormwater Pollution Control Plan (SWPCP), a Hazardous Materials Management Plan (HMMP), or a  
20 Hazardous Waste Contingency Plan, shall be deemed to be in conformance with the requirements of this  
21 section, provided the facility's plan or program addresses Fuels stored in any single container or tank with  
22 individual capacities greater than 50 gallons.

23 [Advisory Note Only: Outdoor Fuel storage areas might be subject to requirements imposed by the Uniform  
24 Fire Code, as adopted by the City. Facilities are directed to that reference to determine applicable  
25 requirements. Facilities located within the City of Portland might also be subject the requirements of the  
26 *Stormwater Management Manual*, published by the City of Portland Bureau of Environmental Services.  
27 Facilities should check that document to determine potential applicability requirements.]

### 32 **3.5.2 Additional Requirements**

#### 33 **Containment**

34 Areas with exposed dispensing hoses or fixtures associated with double-walled container or tank systems  
35 require some form of containment. Containment shall be provided through a quick-closing valve, other shut-  
36 off device, or other methods (such as drain covers, diking material, sorbent booms, etc.) to isolate spilled  
37 materials within the conveyance system that handles runoff, or by containing the spilled material prior to  
38 reaching the conveyance system. Proper signage and maintenance of the isolation equipment shall be an  
39 integral part of the system. (Note: downstream of the containment or isolation device, the conveyance system  
40 does not have to be impervious, e.g., it can be a vegetated swale).

#### 41 **Cover**

42 Liquid storage tanks are not required to be covered with a canopy or roof. To the extent practicable, all taps,  
43 couplings, pumps, and other potential drip, spill, and leak-prone spots (during liquid transfer operations, and  
44 when making and breaking connections) that are not located inside a secondary containment system shall be  
45 covered with rain shields. Drip pans shall be placed under the rain shields. Any materials collected in the  
46 drip pans and any soiled absorbent materials shall be reused, recycled, or appropriately disposed of.

47  
48  
49

1      **Pavement and Coatings**

2      A paved storage area is required unless otherwise approved by the City. The paved area shall be sized to  
3      adequately cover the area intended for storage.

4      Some materials can react with asphalt pavement and deteriorate its integrity. It is therefore preferable to  
5      pave the area with Portland cement concrete. If the area is already paved with asphalt, an asphalt sealant  
6      should be applied to the pavement surface. Whichever paving material is used, the paved surface should be  
7      properly maintained to prevent gaps and cracks.

8      When an exception to the requirement is allowed, the stored material shall still be raised off the ground by  
9      pallets or similar methods, with provisions for spill control.

10     **Drainage**

11     All paved storage areas shall be hydraulically isolated through grading, berms, or drains to prevent  
12     uncontaminated stormwater run-on to a storage area.

13     **Covered storage areas with containment:** Significant amounts of precipitation are not expected to accumulate  
14     in covered storage areas, and drainage facilities are not required for the contained area beneath the cover. If  
15     drainage facilities are installed, the drainage from the hydraulically isolated area shall be directed to an approved  
16     sanitary sewer, sump, catch basin, or other containment device, stored for proper disposition, or transferred to an  
17     authorized pretreatment facility.

18     **Uncovered storage areas with containment:** Water will accumulate in uncovered storage areas during and  
19     after rain. Any *contaminated* water cannot simply be drained from the area. It must be collected, inspected,  
20     and possibly tested before proper disposal can be determined.

21     In uncovered storage areas, a blind sump, quick-closing valve, or other shut-off device that is capable of  
22     isolating the storage area shall be installed on the drain line in the storage area so excess stormwater can be  
23     transferred or drained out of the storage area and directed either to the storm drainage facilities (*if clean*) or  
24     into the City sanitary sewer, or authorized pretreatment facility (*if contaminated*).

25     Except when excess stormwater is being discharged, any installed valves shall be kept closed.

26     All discharges to the sanitary sewer shall be considered batch discharges and shall require approval by the  
27     City and possible pretreatment prior to discharge. Pretreatment requirements will be set as part of the  
28     discharge approval process, based on the types and quantities of material to be discharged. A discharge  
29     evaluation shall be performed before connection or discharge to a sanitary sewer. Testing may be required to  
30     establish characteristics of the wastewater or contaminated stormwater and to verify that local discharge  
31     limits are not exceeded and determine if pretreatment is needed.

32     **Signage**

33     The following language shall be provided at the above-ground storage area for liquid materials that is plainly  
34     visible and water resistant, and include the following information:

- 35        Safety precautions  
36        Immediate spill response procedures  
37        Emergency contacts and telephone numbers

1      **3.5.3 Recommended Operational or Structural Source Control BMPs**

2  
3      Covered storage areas should generally not be equipped with a drain system, but rather a blind sump or other  
4      means of collecting and transferring any accumulated liquids. If a covered storage area is equipped with drain  
5      lines, they should be equipped with a shut-off valve or other means of isolation such as drain cover. Valves  
6      should be kept in the closed position at all times.

7  
8      The cover for an exterior materials storage area should have a minimum overhang of 3 feet on each side for  
9      covers 10 feet high or less. The cover should have a minimum overhang of 5 feet on each side for covers  
10     more than 10 feet high. The overhang should be measured relative to the containment, berm or other  
11     hydraulic barrier beneath the cover.

12  
13     **3.6 Transportation Routes (Or Access Roads)**

14  
15     A transportation route is defined as any outdoor route, driveway, drive aisle, parking lot, maneuvering area,  
16     public streets, and public or private rail lines, that are used for or planned to be used for the transport of  
17     Hazardous Materials. Section 3.6 does not apply to the transportation of Fuel.

18  
19     This section also applies to the public transportation system, including rail lines that may be used by motor  
20     carrier or other common means of transporting Hazardous Materials to and from a facility located within the  
21     regulated groundwater protection area shown in Figure 1.

22  
23     Reconstruction of existing transportation routes as a result of a development permit application shall be  
24     subject to the requirements of this section, where practicable.

25  
26     **3.6.1 General Requirements**

27  
28     **Pavement**

29     All Hazardous Material transportation routes, except rail lines, shall be paved.

30  
31     **Drainage collection system**

32     Transportation corridors shall be completed with curbs and gutters, berm systems, or the drainage area shall  
33     be sloped and graded in a manner to convey spilled materials to a containment area, or be designed to hold  
34     such materials in that area until they can be removed.

35  
36     **Drainage conveyance system.**

37     A drainage conveyance system consists of the conduits which collect runoff from the Hazardous Material  
38     transportation route (and, also, possibly the storage, unloading/loading and process areas). If the  
39     transportation corridor contains a drainage conveyance system, it shall be constructed of impervious  
40     materials, including any open channels.

41  
42     **3.6.2 Additional Requirements**

43  
44     **Spill containment**

45     Containment of a spill shall be provided through a quick-closing valve, other shut-off device, or other  
46     methods (such as drain covers, diking material, sorbent booms, spill kits, etc.) to isolate spilled materials  
47     within the conveyance system that handles runoff, or by containing the spilled material prior to reaching the  
48     conveyance system. Proper signage and maintenance of the isolation equipment shall be an integral part of  
49     the system. (Note: downstream of the containment, the conveyance system does not have to be impervious,  
50     e.g., it can be a vegetated swale).

1 All containment facilities shall provide a minimum capacity adequate to capture 150 gallons. This  
2 containment volume may be provided by treatment facilities, oversized piping, or paved areas.  
3

4 Facilities may also satisfy this requirement by providing secondary containment of Hazardous Materials  
5 within or on the transport vehicle itself (e.g., transporting materials to the facility in double-walled tanks,  
6 totes, or containers, transporting materials inside containment pallets, or transporting materials inside DOT-  
7 approved overpack containers, etc.).  
8

9 **3.6.3 Recommended Operational or Structural Source Control BMPs**

10 This section contains *recommended* operational or structural source control BMPs for the transportation of  
11 Hazardous Materials.

12 Sections 3.6.1, 3.6.2, and this section are *recommended* operational or structural source control BMPs for the  
13 transportation of Fuel.

- 14 • A spill control separator or multi-chambered oil/water treatment device may be used to satisfy the  
15 requirements for both the transportation corridors and paved surfaces/parking areas. Oil/water  
16 treatment devices used for spill containment purposes should be equipped with a shut-off mechanism  
17 immediately downstream. The valve should be well marked and in good working order, and  
18 employees should be trained in spill response procedures.  
19
- 20 • Spill containment that will be integrated into the site stormwater quality/quantity systems should be  
21 constructed with a quick-closing valve and lined forebay that precede the stormwater facility. The  
22 forebay and piping system should be designed to capture 150 gallons. In addition, a valve or other  
23 shut-off device should be placed between the forebay and the treatment facility to isolate any spilled  
24 materials. The valve should be well marked and placed in a location that can be accessed easily and  
25 safely in an emergency situation and should be in good working order. Employees should be trained  
26 in spill response procedures.  
27
- 28 • Seal joints and cracks with a bonded epoxy or similar material.  
29

30 **3.7 Fuel Dispensing Facilities**

31 The requirements in this section apply to facilities where vehicles, equipment, or tanks are refueled on the  
32 premises from stationary fueling equipment—whether a large-sized gas station, a single-pump maintenance yard,  
33 or a small-sized fuel tank.

34 A Fuel dispensing facility is defined as the area where Fuel is transferred from bulk storage tanks to vehicles,  
35 equipment, and/or mobile containers (including fuel islands, above or below-ground fuel tanks, fuel pumps, and  
36 the surrounding pad). Propane, liquefied natural gas, and natural gas fueling facilities and tanks are exempt  
37 from the requirements of Section 3.7.

38 **3.7.1 General Requirements**

39 Facilities with Fuel dispensing operations or areas shall follow the section on ***BMPs for Fueling at Dedicated***  
***Stations*** contained in **Stormwater Management Manual for Western Washington-Volume IV: Source**

1      **Control BMPs** as published by the Washington State Department of Ecology, August 2001 (Ecology  
2      Publication No. 99-14).<sup>11</sup>

3

### 4      **3.7.2 Additional Requirements**

5      The following additional requirements apply to facilities with Fuel dispensing operations or areas:

6

#### 7      **Signage**

8      Signage shall be provided at the Fuel dispensing area and shall be plainly visible from all fueling activity  
9      areas. In addition to the signage required pursuant to Section 3.7.1 or the Uniform Fire Code as adopted by  
10     the City, the following additional signage shall be provided at the Fuel dispensing area that is plainly visible  
11     and water resistant, and includes the following information:

- 12
- 13        Safety precautions
  - 14        Immediate spill response procedures
  - 15        Emergency contacts and telephone numbers

16

#### 17      **Shut-Off Valve**

18      A shut-off valve, other shut-off device, or other methods of isolating the fueling pad (such as drain covers,  
19      dike material, sorbent booms, etc.) shall be installed downstream of the fueling pad, before the domestic  
20      waste line tie-in.

21

### 22      **3.7.3 Recommended Operational or Structural BMPs**

23      Not Applicable.

24

## 25      **3.8 Storage, Maintenance, and Repair of Vehicles and Equipment**

26      This section applies to facilities that engage in the onsite maintenance and repair of vehicles and equipment and  
27      facilities engaged in non-exempt uses (b)(ii) or (b)(iii) defined in Section 1.4.4).

28

### 29      **3.8.1 General Requirements**

30      Facilities that engage in the onsite maintenance and repair of vehicles and equipment and facilities engaged in  
31      non-exempt uses (b)(ii) or (b)(iii) defined in Section 1.4.4), shall follow the section on ***BMPs for Maintenance***  
32      and ***Repair of Vehicles and Equipment*** contained in **Stormwater Management Manual for Western**  
33      **Washington-Volume IV: Source Control BMPs** as published by the Washington State Department of  
34      Ecology, August 2001 (Ecology Publication No. 99-14).<sup>12</sup>

35      Facilities that are engaged in the non-exempt uses (b)(ii) or (b)(iii) defined in Section 1.4.4), shall also follow the  
36      section on ***BMPs for Parking and Storage of Vehicles and Equipment*** contained in **Stormwater Management**  
37      **Manual for Western Washington-Volume IV: Source Control BMPs** as published by the Washington State  
38      Department of Ecology, August 2001 (Ecology Publication No. 99-14).

<sup>11</sup> For the purposes of this manual all reference to the Department of Ecology should be interpreted as either the Oregon Department of Environmental Quality (DEQ), or the Bureau of Environmental Services.

<sup>12</sup> For the purposes of this manual, all reference to the Department of Ecology should be interpreted as either the Oregon Department of Environmental Quality (DEQ), or the Bureau of Environmental Services.

1 Facilities engaged in non-exempt uses (b)(ii) or (b)(iii) defined in Section 1.4.4) may alternatively comply with  
2 Section 3.6.1 (Transportation Routes - General Requirements) in lieu of the BMPs referenced in this Section.

3

### 4 **3.8.2 Additional Requirements**

5

6 Not Applicable.

7

### 8 **3.8.3 Recommended Operational or Structural BMPs**

9

10 For facilities engaged in non-exempt uses (b)(ii) or (b)(iii) defined in Section 1.4.4) that choose to comply  
11 with Section 3.8.1 in lieu of Section 3.6.1, Section 3.6.1 contains *recommended* operational or structural  
12 source control BMPs for these activities.

13

### 14 **3.9 Training Requirements**

15

16 Facility owners, operators, or tenants<sup>13</sup> who exceed the regulated material threshold amounts defined in  
17 Section 1.3 (Table 1) and are located within Zone 1 of the WHPA are required to annually provide  
18 awareness training to personnel who handle Hazardous Materials or Fuels.

19 Facility owners, operators, or tenants shall develop a training program or amend an existing program (see  
20 Section 3.1.1) that informs personnel of the possible risks to the WHPA associated with the  
21 handling/managing Hazardous Materials or Fuels at their facility. The training provided must address or  
22 cover the following:

- 23 a. The location of the facility within Zone 1 of the WHPA,
- 24 b. Where to find material safety data sheets (MSDS) at the facility,
- 25 c. Overview of how to read the information contained on a MSDS,
- 26 d. The name and contact information of facility personnel who are to be notified in the event of a  
27 release of Hazardous Materials or Fuels,
- 28 e. Personnel with direct responsibility for responding to a release of Hazardous Materials or Fuels at  
29 the facility shall also receive training in the following areas or topics:
  - 30 (1) Review of the most recent Hazardous Materials Inventory Report submitted in  
31 accordance with Section 5.1,
  - 32 (2) Review of the most recent Facility Information Report submitted in accordance with  
33 Section 5.2,
  - 34 (3) Overview of the potential risks that spilled Hazardous Materials or Fuels may pose to the  
35 wellfield, and
  - 36 (4) Review of response procedures that will be followed in the event of a release of  
37 Hazardous Materials or Fuels.

38 Facility owners, operators, or tenants shall maintain a copy of the training materials and a written log of  
39 personnel who have completed the annual training for 3 years following completion of the training.

---

40  
41  
42  
43  
<sup>13</sup> For non-owner operated facilities, the training and recordkeeping obligations of this section are the responsibility  
of the facility operator or tenant.

1           **Section 4 Operation and Maintenance Activities**  
2

3           **4.1 General Recommendation**  
4

5       Preparation of an Operations and Maintenance (O&M) Plan is recommended. An O&M Plan helps assure  
6       optimum performance of the containment devices and minimizes the potential for spills, leaks and other  
7       sources of Hazardous Materials or Fuels. An O&M Plan should include at least the following elements:  
8

- 9           • Scope of activities;  
10          • Schedule for inspection and maintenance; and  
11          • Parties responsible for inspecting.  
12

13      Though an O&M Plan is not required by the WHPP, facilities are cautioned that a number of existing  
14     regulatory programs require the development of plans that define operation, maintenance, prevention,  
15     preparedness, and emergency instructions that may be applicable to a facility, including:  
16

- 17          • Spill Prevention Control and Countermeasures Plan (SPCC) prepared in accordance with 40 CFR  
18           112;  
19          • Contingency Plan prepared in accordance with 40 CFR 264 or 265;  
20          • Storm Water Pollution Control Plan (SWPCP) prepared in accordance with 40 CFR 122;  
21          • Hazardous Materials Management Plan (HMMP) prepared in accordance with Appendix II-E of the  
22           Uniform Fire Code; or  
23          • Other O&M, Hazardous Material or Fuel response plan(s) prepared in accordance with local, state,  
24           or federal regulations  
25

26           **4.2 Additional Recommendations**  
27

- 28          • **Impervious surfaces.** Monitor conditions yearly to ensure that the surface is in good condition.  
29          Any cracks should be repaired and reapplication of sealants should be considered.  
30          • **Gates and valves.** Test yearly to ensure that moving parts are functional and that there is a complete  
31           range of functional movement.  
32          • **Signage.** Ensure that the sign can be read and that the information provided is accurate and up to  
33           date.  
34

1

## 2 **Section 5 Reporting Requirements**

3

4 Facility owners, operators, or tenants<sup>14</sup> who exceed the regulated material threshold amounts defined in  
5 Section 1.3 (Table 1) are required to annually provide the following reports to the City.

6

### 7 **5.1 Annual Hazardous Material Inventory Report<sup>15</sup>**

8

9 Facilities may satisfy this requirement by submitting a copy of its annual Hazardous Substance Information  
10 Survey Report that is submitted to the Office of the State Fire Marshal in accordance with OAR 837-85-050.  
11 Facilities shall submit this information to the City within 30 days of filing its report with the Office of the  
12 State Fire Marshal.

13 If a facility is in an exempt Standard Industrial Classification (SIC) category pursuant to OAR 837-85-030,  
14 or has not previously prepared an annual Hazardous Substance Information Survey Report, but stores or uses  
15 Hazardous Materials, Petroleum Products, or Fuels that exceed the threshold amounts defined in Table 1, the  
16 facility shall annually submit to the City regulated material inventory information on forms comparable to  
17 that required by the Office of the State Fire Marshal, or in accordance with Appendix II-E, Figure A-II-E-1,  
18 Section II, Part B – Hazardous Materials Inventory Statement of the Uniform Fire Code. Facilities shall  
19 submit this information to the City by November 30 of each year.

20

### 21 **5.2 Facility Information Report**

22

23 In addition to the annual Hazardous Material Inventory Report, facilities shall also submit a site plan, map, or  
24 drawing with the following information with its submittal to the City:

- 25
- 26 • Location of functional area(s) used for Hazardous Materials or Fuels,
  - 27 • On-site Hazardous Material transportation route(s),
  - 28 • Locations of storm drains and drainage area boundary lines,
  - 29 • Locations of dry wells or sumps used for subsurface disposal of stormwater or wastewater,
  - 30 • Location and description of any device(s) to stop or contain spills from leaving the site (e.g., control  
31 valves), and
  - 32 • Location of emergency spill containment and cleanup kit(s)
- 33

34 Facilities may satisfy this submittal requirement by furnishing appropriately referenced information from a  
35 completed Hazardous Materials Management Plan (as required by some facilities to comply with the  
36 Uniform Fire Code), a Storm Water Pollution Control Plan (to satisfy the 1200-COLS NPDES permit), an  
37 SPCC plan prepared in accordance with 40 CFR 112, or a Hazardous Waste Contingency Plan prepared in  
38 accordance with 40 CFR 264 or 265.

40

---

<sup>14</sup> For non-owner operated facilities, the reporting obligation is the responsibility of the facility operator or tenant.

<sup>15</sup> For the purposes of this section only, the Hazardous Material Inventory Report shall include Hazardous Materials, Petroleum Products, and Fuels defined in Section 1.3.1 and 1.3.2 that exceed the threshold quantities given in Table 1.

1 Facilities shall provide this information with the annual Hazardous Material Inventory Report required in  
2 Section 5.1. If the information required in this section has not changed in the previous 12 months, the  
3 facility may submit a declaration to the City that the previous submittal remains current.

4  
5

## **Appendix A**

### **Halogenated Solvents List**

**Appendix A**  
**Halogenated Solvent List**  
**(Alpha Sort)**

Solvent	Synonym	CAS No.	Specific Density (g/cc)
Benzyl chloride	Chloromethylbenzene	100-44-7	1.100
Bis(2-chloroethyl)ether	Bis(-chloroehtyl)ether	111-44-4	1.220
Bis(2-chloroisopropyl)ether	Bis(-chloroisopropyl)ether	108-60-1	1.103
Bromobenzene	Phenyl bromide	108-86-1	1.495
Bromoform	Chlorobromomethane	74-97-5	1.934
Bromochloromethane	Dichlorobromomethane	75-27-4	1.980
Bromodichloromethane	Ethyl bromide	74-96-4	1.460
Bromoform	Tribromomethane	75-25-2	2.890
Carbon tetrachloride	Tetrachloromethane	56-23-5	1.594
Chlorobenzene	Benzene chloride	108-90-7	1.106
2-Chloroethyl vinyl ether	(2-Chlorethoxy)ethene	110-75-8	1.048
Chloroform	Trichloromethane	67-66-3	1.483
1-Chloro-1-nitropropane	Chloronitropropane	600-25-9	1.209
2-Chlorophenol	o-Chlorophenol	95-57-8	1.263
4-Chlorophenyl phenyl ether	p-Chlorodiphenyl ether	7005-72-3	1.203
Chloropicrin	Trichloronitromethane	76-06-2	1.656
m-Chlorotoluene		108-41-8	1.072
o-Chlorotoluene	2-Chloro-1-methylbenzene	95-45-8	1.082
p-Chlorotoluene		106-43-4	1.066
Dibromochloromethane	Chlorodibromomethane	124-48-1	2.451
1,2-Dibromo-3-chloropropane	DPCP	96-12-8	2.050
Dibromodifluoromethane	Freon 12-B2	75-61-6	2.297
1,2-Dichlorobenzene	o-Dichlorobenzene	95-50-1	1.305
1,3-Dichlorobenzene	m-Dichlorobenzene	541-73-1	1.288
1,1-Dichloroethane	1,1-DCA	75-34-3	1.176
1,2-Dichloroethane	Ethylene dichloride; 1,2-DCA	107-06-2	1.235
1,1-Dichloroethene	Vinylidene chloride; 1,1-DCE	75-35-4	1.218
trans-1,2-Dichloroethene	trans-1,2-DCE:	156-60-5	1.257
1,2-Dichloropropane	Propylene dichloride	78-87-5	1.560
cis-1,3-Dichloropropene	cis-1,3-Dichloropropylene	10061-01-5	1.224
trans-1,3-Dichloropropene	trans-1,3-Dichlonopropylene	10061-02-0	1.182
Ethylene dibromide	1,2-Dibromoethane; EDB	106-93-4	2.179
Hexachlorobutadiene	HCBD	87-68-3	1.554
Hexachlorocyclopentadiene	HCCPD	77-47-4	1.702
Methylene chloride	Dichloromethane	75-09-2	1.327
Pentachloroethane	Ethane pentachloride	76-01-7	1.680
1,1,2,2-Tetrabromoethane	Acetylene tetrabromide	79-27-6	2.875
1,1,2,2-Tetrachloroethane	Acetylene tetrachloride	79-34-5	1.595
Tetrachloroethene	Perchloroethylene; PCE	127-18-4	1.623
1,2,4-Tetrachlorobenzene	1,2,4-TCB	120-82-1	1.454
1,1,1-Trichloroethane	Methyl chloroform; 1,1,1-TCA	71-55-6	1.339
1,1,2-Trichloroethane	1,1,2-TCA	79-00-5	1.440
Trichloroethene	TCE	79-01-6	1.464
1,1,2-Trichlorofluoromethane	Freon 11	75-69-4	1.487
1,2,3-Trichloropropane	Allyl trichloride	96-18-4	1.389
1,1,2-Trichlorotrifluoroethane	Freon 113	76-13-1	1.564

**Appendix A**  
**Halogenated Solvent List**  
**(Chemical Abstracts Registry Service, CAS Sort)**

Solvent	Synonym	CAS No.	Specific Density (g/cc)
Carbon tetrachloride	Tetrachloromethane	56-23-5	1.594
Chloroform	Trichloromethane	67-66-3	1.483
1,1,1-Trichloroethane	Methyl chloroform; 1,1,1-TCA	71-55-6	1.339
Bromoethane	Ethyl bromide	74-96-4	1.460
Bromochloromethane	Chlorobromomethane	74-97-5	1.934
Methylene chloride	Dichloromethane	75-09-2	1.327
Bromodichloromethane	Dichlorobromomethane	75-27-4	1.980
Bromoform	Tribromomethane	75-25-2	2.890
1,1-Dichloroethane	1,1-DCA	75-34-3	1.176
1,1-Dichloroethene	Vinylidene chloride; 1,1-DCE	75-35-4	1.218
Dibromodifluoromethane	Freon 12-B2	75-61-6	2.297
1,1,2-Trichlorofluoromethane	Freon 11	75-69-4	1.487
Pentachloroethane	Ethane pentachloride	76-01-7	1.680
Chloropicrin	Trichloronitromethane	76-06-2	1.656
1,1,2-Trichlorotrifluoroethane	Freon 113	76-13-1	1.564
Hexachlorocyclopentadiene	HCCPD	77-47-4	1.702
1,2-Dichloropropane	Propylene dichloride	78-87-5	1.560
1,1,2-Trichloroethane	1,1,2-TCA	79-00-5	1.440
Trichloroethene	TCE	79-01-6	1.464
1,1,2,2-Tetrabromoethane	Acetylene tetrabromide	79-27-6	2.875
1,1,2,2-Tetrachloroethane	Acetylene tetrachloride	79-34-5	1.595
Hexachlorobutadiene	HCBD	87-68-3	1.554
o-Chlorotoluene	2-Chloro-1-methylbenzene	95-45-8	1.082
1,2-Dichlorobenzene	o-Dichlorobenzene	95-50-1	1.305
2-Chlorophenol	o-Chlorophenol	95-57-8	1.263
1,2-Dibromo-3-chloropropane	DPCP	96-12-8	2.050
1,2,3-Trichloropropane	Allyl trichloride	96-18-4	1.389
Benzyl chloride	Chloromethylbenzene	100-44-7	1.100
p-Chlorotoluene		106-43-4	1.066
Ethylene dibromide	1,2-Dibromoethane; EDB	106-93-4	2.179
1,2-Dichloroethane	Ethylene dichloride; 1,2-DCA	107-06-2	1.235
m-Chlorotoluene		108-41-8	1.072
Bis(2-chloroisopropyl)ether	Bis(-chloroisopropyl)ether	108-60-1	1.103
Bromobenzene	Phenyl bromide	108-86-1	1.495
Chlorobenzene	Benzene chloride	108-90-7	1.106
2-Chloroethyl vinyl ether	(2-Chlorethoxy)ethene	110-75-8	1.048
Bis(2-chloroethyl)ether	Bis(-chloroehtyl)ether	111-44-4	1.220
1,2,4-Tetrachlorobenzene	1,2,4-TCB	120-82-1	1.454
Dibromochloromethane	Chlorodibromomethane	124-48-1	2.451
Tetrachloroethene	Perchloroethylene; PCE	127-18-4	1.623
trans-1,2-Dichloroethene	trans-1,2-DCE:	156-60-5	1.257
1,3-Dichlorobenzene	m-Dichlorobenzene	541-73-1	1.288
1-Chloro-1-nitropropane	Chloronitropropane	600-25-9	1.209
4-Chlorophenyl phenyl ether	p-Chlorodiphenyl ether	7005-72-3	1.203
cis-1,3-Dichloropropene	cis-1,3-Dichloropropylene	10061-01-5	1.224
trans-1,3-Dichloropropene	trans-1,3-Dichlonopropylene	10061-02-0	1.182

## **Appendix B**

### **List of Carcinogenic Materials**

## APPENDIX H: CAS REGISTRY NUMBER INDEX

In the CAS Registry Number (CASRN) index are listed the chemical names and Chemical Abstracts Service (CAS) Registry Numbers of all entries in the *Ninth Report on Carcinogens*. The CASRN is simply a unique identification number for a specific chemical substance (like personal identification by the Social Security Number). The CAS Registry System publishes a Registry Handbook (updated yearly) that contains the names and CASRNs of all chemical substances that have been reported since 1965. The Registry Handbook also has a Common Name Index that links about 600,000 common names to 370,000 CAS numbers, and is composed of 2 sections: Name and Number. The Name Section links common substance names (arranged alphabetically) to their corresponding CAS numbers and molecular formulae. The Number Section links the CAS number (arranged numerically) to the molecular formula, Chemical Abstracts index name, and the common name.

CASRN	NAME OR SYNONYM	Listing in the 9 <sup>th</sup> RoC <sup>a</sup>	FIRST LISTED <sup>b</sup>	Page No. III-
	<b>Alcoholic Beverage Consumption</b>	K	9	2
	Analgesic Mixtures Containing Phenacetin	K	4	4
	Aroclor (under Polychlorinated Biphenyls)	R	2	186
	Arsenic Compounds, Inorganic	K	1	4
	Ceramic Fibers	R	7	83
	Chromium Hexavalent Compounds	K	1	22
	Coke Oven Emissions	K	1	24
	<b>Diesel Exhaust Particulates</b>	R	9	110
	<b>Dyes that Metabolize to Benzidine</b>	K	9	29
	<b>Environmental Tobacco Smoke</b>	K	9	33
	FireMaster BP-6 (See Polybrominated Biphenyls)	R	3	185
	Glasswool	R	7	134
	Mineral Oils	K	1	54
	Nickel and Certain Nickel Compounds	R	1	155
	PAHs (See Polycyclic Aromatic Hydrocarbons)	R	5	187
	PBBs	R	3	185
	Polybrominated Biphenyls (PBBs)	R	3	185
	Polycyclic Aromatic Hydrocarbons (PAHs)	R	5	187
	<b>Smokeless Tobacco</b>	K	9	46
	<b>Solar Radiation and Exposure to Sunlamps and Sunbeds</b>	K	9	48

**CAS Registry Number Index (Continued)**

CASRN	NAME OR SYNONYM	Listing in the 9 <sup>th</sup> RoC <sup>a</sup>	FIRST LISTED <sup>b</sup>	Page No. III-
	Soots	K	1	50
	<b>Strong Inorganic Acid Mists Containing Sulfuric Acid</b>	K	9	<b>51</b>
	Tars	K	1	54
	<b>Tobacco Smoking</b>	K	9	<b>60</b>
50-00-0	Formaldehyde (gas)	R	2	131
50-18-0	Cyclophosphamide	K	1	26
50-28-2	Estradiol-17 $\beta$ (under Estrogens [Not Conjugated])	R	4	126
50-29-3	DDT (Dichlorodiphenyltrichloroethane)	R	4	97
50-29-3	Dichlorodiphenyltrichloroethane (See DDT)	R	4	97
50-29-3	1,1,1-Trichloro-2,2-bis( <i>p</i> -chlorophenyl)ethane (See DDT)	R	4	97
50-32-8	Benz[a]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
50-55-5	Reserpine	R	2	195
51-52-5	Propylthiouracil	R	4	195
51-79-6	Ethyl Carbamate (See Urethane)	R	3	214
51-79-6	Urethane (Urethan; Ethyl carbamate)	R	3	214
52-24-4	Thiotepa [in 7th ARC as tris(1-Aziridinyl)phosphine Sulfide]	K	2 <sup>c</sup> 8 <sup>d</sup>	58
52-24-4	tris(1-Aziridinyl)phosphine Sulfide (Thiotepa)	K	2 <sup>c</sup> 8 <sup>d</sup>	58
53-16-7	Estrone (under Estrogens [Not Conjugated])	R	4	127
53-70-3	Dibenz[ <i>a,h</i> ]anthracene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
53-96-3	2-Acetylaminofluorene	R	2	166
55-18-5	DEN (See <i>N</i> -Nitrosodiethylamine)	R	2	167
55-18-5	Diethylnitrosamine (See <i>N</i> -Nitrosodiethylamine)	R	2	167
55-18-5	<i>N</i> -Nitrosodiethylamine (Diethylnitrosamine; DEN)	R	2	167
55-86-7	Nitrogen Mustard Hydrochloride	R	4	163
55-98-1	Busulfan (See 1,4-Butanediol Dimethylsulfonate)	K	4	17
55-98-1	1,4-Butanediol Dimethylsulfonate (Myleran <sup>®</sup> ; Busulfan)	K	4	17
55-98-1	Myleran <sup>®</sup> (See 1,4-Butanediol Dimethylsulfonate)	K	4	17
56-23-5	Carbon Tetrachloride	R	2	82
56-53-1	Diethylstilbestrol	K	1	28
56-55-3	Benz[a]anthracene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
57-14-7	1,1-Dimethylhydrazine (UDMH)	R	4	120

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
57-14-7	UDMH (See 1,1-Dimethylhydrazine)	R	4	120
57-41-0	Phenytoin	R	1	184
57-57-8	β-Propiolactone	R	2	192
57-63-6	Ethinylestradiol (under Estrogens [Not Conjugated])	R	4	128
57-83-0	Progesterone	R	4	91
58-89-9	γ-Hexachlorocyclohexane (under Lindane and Other Hexachlorocyclohexane Isomers)	R	2	146
58-89-9	Lindane (under Lindane and Other Hexachlorocyclohexane Isomers)	R	2	146
59-89-2	<i>N</i> -Nitrosomorpholine	R	2	174
60-11-7	4-Dimethylaminoazobenzene	R	2	117
61-82-5	Amitrole	R	2	73
62-44-2	Phenacetin (See also Analgesic Mixtures Containing Phenacetin, p.10)	R	1	180
62-50-0	Ethyl Methanesulfonate	R	6	130
62-55-5	Thioacetamide	R	3	204
62-56-6	Thiourea	R	3	204
62-75-9	Dimethylnitrosamine (See <i>N</i> -Nitrosodimethylamine)	R	2	168
62-75-9	DMN (See <i>N</i> -Nitrosodimethylamine)	R	2	168
62-75-9	<i>N</i> -Nitrosodimethylamine (Dimethylnitrosamine; DMN)	R	2	168
63-92-3	Phenoxybenzamine Hydrochloride	R	5	183
64-67-5	Diethyl Sulfate	R	4	115
66-27-3	Methyl Methanesulfonate	R	6	151
67-66-3	Chloroform	R	2	86
67-72-1	Hexachloroethane	R	7	138
68-22-4	Norethisterone	R	4	177
70-25-7	<i>N</i> -Methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine	R	6	151
71-43-2	Benzene	K	1	11
72-33-3	Mestranol (under Estrogens [Not Conjugated])	R	4	129
75-01-4	Vinyl Chloride	K	1	61
75-07-0	Acetaldehyde	R	6	65
75-09-2	Dichloromethane (Methylene Chloride)	R	5	107
75-09-2	Methylene Chloride (See Dichloromethane)	R	5	107
75-21-8	<b>Ethylene Oxide</b>	K	2 <sup>c</sup> 9 <sup>d</sup>	35

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
75-27-4	Bromodichloromethane	R	6	79
75-55-8	2-Methylaziridine (Propylenimine)	R	4	147
75-55-8	Propylenimine (See 2-Methylaziridine)	R	4	147
75-56-9	Propylene Oxide	R	6	193
<b>77-09-8</b>	<b>Phenolphthalein</b>	<b>R</b>	<b>9</b>	<b>182</b>
77-78-1	Dimethyl Sulfate	R	2	121
<b>78-79-5</b>	<b>Isoprene</b>	<b>R</b>	<b>9</b>	<b>143</b>
<b>79-01-6</b>	<b>Trichloroethylene</b>	<b>R</b>	<b>9</b>	<b>209</b>
79-06-1	Acrylamide	R	6	67
79-44-7	Dimethylcarbamoyl Chloride	R	2	119
79-46-9	2-Nitropropane	R	4	164
82-28-0	1-Amino-2-methylanthraquinone	R	3	73
88-06-2	2,4,6-Trichlorophenol	R	3	211
90-94-8	Bis(dimethylamino)benzophenone (See Michler's Ketone)	R	3	153
90-94-8	Michler's Ketone [4,4'-(Dimethylamino)benzophenone]	R	3	153
91-23-6	<i>o</i> -Nitroanisole	R	8	158
91-59-8	2-Aminonaphthalene (See 2-Naphthylamine)	K	1	41
91-59-8	2-Naphthylamine ( $\beta$ -Naphthylamine; 2-Aminonaphthalene)	K	1	41
91-94-1	3,3'-Dichlorobenzidine	R	2	105
92-67-1	4-Aminobiphenyl (4-Aminodiphenyl)	K	1	3
92-87-5	Benzidine	K	1	11
94-59-7	Safrole	R	2	196
95-06-7	<i>N,N</i> -Diethyldithiocarbamic acid 2-chloroallyl ester (See Sulfallate)	R	3	199
95-06-7	Sulfallate	R	3	199
95-53-4	<i>o</i> -Toluidine	R	3	207
95-69-2	<i>p</i> -Chloro- <i>o</i> -toluidine	R	8	90
95-80-7	2,4-Diaminotoluene	R	2	99
95-83-0	4-Chloro- <i>o</i> -phenylenediamine	R	4	89
96-12-8	1,2-Dibromo-3-chloropropane	R	2	100
96-18-4	1,2,3-Trichloropropane	R	8	212
96-45-7	Ethylene Thiourea	R	3	129
97-56-3	<i>o</i> -Aminoazotoluene	R	5	72

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
98-07-7	Benzotrichloride	R	4	76
100-75-4	<i>N</i> -Nitrosopiperidine	R	2	175
101-14-4	MBOCA [See 4,4'-Methylenebis(2-chloraniline)]	R	3	148
101-14-4	4,4'-Methylenebis(2-chloraniline) (MBOCA)	R	3	148
101-61-1	4,4'-Methylenebis( <i>N,N</i> -dimethylbenzenamine)	R	3	149
101-77-9	4,4'-Methylenedianiline	R	4	150
101-80-4	Diaminodiphenyl Ether (See 4,4'-Oxydianiline)	R	5	179
101-80-4	4,4'-Oxydianiline	R	5	179
101-90-6	Diglycidyl Resorcinol Ether	R	5	116
106-46-7	1,4-Dichlorobenzene ( <i>p</i> -Dichlorobenzene)	R	5	103
106-87-6	4-Vinyl-1-cyclohexene Diepoxide	R	7	216
106-89-8	Epichlorohydrin	R	4	125
106-93-4	1,2-Dibromoethane (Ethylene dibromide; EDB)	R	2	102
106-93-4	Ethylene Dibromide [See 1,2-Dibromoethane (EDB)]	R	2	102
<b>106-99-0</b>	<b>1,3-Butadiene</b>	<b>K</b>	<b>5<sup>c</sup> 9<sup>d</sup></b>	<b>14</b>
107-06-2	1,2-Dichloroethane (Ethylene Dichloride)	R	2	102
107-06-2	Ethylene Dichloride (See 1,2-Dichloroethane)	R	2	102
107-13-1	Acrylonitrile	R	2	69
107-30-2	Chloromethyl Methyl Ether	K	1	13
110-00-9	Furan	R	8	133
115-28-6	Chlorendic Acid	R	5	84
<b>116-14-3</b>	<b>Tetrafluoroethylene</b>	<b>R</b>	<b>9</b>	<b>202</b>
117-10-2	Danthron (1,8-Dihydroxyanthraquinone)	R	8	96
117-10-2	1,8-Dihydroxyanthraquinone [See Danthron]	R	8	96
117-79-3	2-Aminoanthraquinone	R	3	71
117-81-7	bis(2-Ethylhexyl) Phthalate [See di(2-Ethylhexyl)phthalate]	R	3	113
117-81-7	DEHP [See di(2-Ethylhexyl) Phthalate]	R	3	113
117-81-7	di(2-Ethylhexyl) Phthalate [DEHP; bis(2-Ethylhexyl phthalate)]	R	3	113
118-74-1	Hexachlorobenzene	R	3	137
119-90-4	3,3'-Dimethoxybenzidine	R	3	116
119-93-7	3,3'-Dimethylbenzidine	R	3	118
120-71-8	<i>p</i> -Cresidine	R	2	94

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
122-66-7	Hydrazobenzene	R	2	141
123-91-1	1,4-Dioxane	R	2	122
126-72-7	Tris(2,3-dibromopropyl) Phosphate	R	2	213
<b>126-99-8</b>	<b>Chloroprene</b>	<b>R</b>	<b>9</b>	<b>89</b>
127-18-4	Perchloroethylene (See Tetrachloroethylene)	R	5	200
127-18-4	Tetrachloroethylene (Perchloroethylene)	R	5	200
134-29-2	<i>o</i> -Anisidine Hydrochloride	R	3	74
135-20-6	Cupferron	R	3	95
136-40-3	Phenazopyridine Hydrochloride	R	2	181
139-13-9	Nitrilotriacetic Acid	R	3	157
143-50-0	Chlordecone® (see Kepone®)	R	2	144
143-50-0	Kepone® (Chlordecone)	R	2	144
148-82-3	Melphalan	K	1	39
154-93-8	BCNU [See Bis(chloroethyl) Nitrosourea]	R	4	78
154-93-8	Bis(chloroethyl) Nitrosourea (BCNU)	R	4	78
189-55-9	Dibenzo[ <i>a,i</i> ]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
189-64-0	Dibenzo[ <i>a,h</i> ]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
191-30-0	Dibenzo[ <i>a,l</i> ]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
192-65-4	Dibenzo[ <i>a,e</i> ]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
193-39-5	Indeno[1,2,3- <i>cd</i> ]pyrene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
194-59-2	7 <i>H</i> -Dibenzo[ <i>c,g</i> ]carbazole (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
205-82-3	Benzo[ <i>j</i> ]fluoranthene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
205-99-2	Benzo[ <i>b</i> ]fluoranthene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
207-08-9	Benzo[ <i>k</i> ]fluoranthene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
224-42-0	Dibenz[ <i>a,j</i> ]acridine (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
226-36-8	Dibenz[ <i>a,h</i> ]acridine (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
298-81-7	Methoxsalen (under Methoxsalen with Ultraviolet A Therapy (PUVA)) [methoxsalen not carcinogenic alone]	K	4	40
301-04-2	Lead Acetate	R	2	145
302-01-2	Hydrazine	R	3	140
303-47-9	Ochratoxin A	R	6	178
305-03-3	Chlorambucil	K	2	21

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
319-84-6	α-Hexachlorocyclohexane (under Lindane and Other Hexachlorocyclohexane Isomers)	R	2	146
319-85-7	β-Hexachlorocyclohexane (under Lindane and Other Hexachlorocyclohexane Isomers)	R	2	146
320-67-2	Azacitidine (5-Azacytidine)	R	8	76
366-70-1	Procarbazine Hydrochloride	R	2	190
373-02-4	Nickel Acetate (under Nickel and Certain Nickel Compounds)	R	1	155
434-07-1	Oxymetholone	R	1	180
438-67-5	Sodium Estrone Sulfate (under Conjugated Estrogens)	K	5	25
443-48-1	Metronidazole	R	4	152
446-86-6	Azathioprine	K	4	9
505-60-2	Mustard Gas	K	1	41
509-14-8	Tetranitromethane	R	7	203
513-37-1	Dimethylvinyl Chloride	R	6	122
542-75-6	1,3-Dichloropropene (Technical Grade)	R	5	109
542-88-1	Bis(chloromethyl) Ether	K	1	13
556-52-5	Glycidol	R	7	136
563-47-3	3-Chloro-2-methylpropene	R	5	88
569-61-9	C.I. Basic Red 9 Monohydrochloride	R	5	93
608-73-1	Hexachlorocyclohexane (under Lindane and Other Hexachlorocyclohexane Isomers)	R	2	146
612-83-9	3,3'-Dichlorobenzidine Dihydrochloride	R	6	105
621-64-7	<i>N</i> -Nitrosodi- <i>n</i> -propylamine	R	2	170
636-21-5	<i>o</i> -Toluidine Hydrochloride	R	2	207
680-31-9	Hexamethylphosphoramide	R	4	139
684-93-5	<i>N</i> -Methyl- <i>N</i> -nitrosourea (See <i>N</i> -Nitroso- <i>N</i> -methylurea)	R	2	172
684-93-5	<i>N</i> -Nitroso- <i>N</i> -methylurea ( <i>N</i> -Methyl- <i>N</i> -nitrosourea)	R	2	172
759-73-9	ENU [See <i>N</i> -Nitroso- <i>N</i> -ethylurea ( <i>N</i> -Ethyl- <i>N</i> -nitrosourea)]	R	2	171
759-73-9	<i>N</i> -Ethyl- <i>N</i> -nitrosourea (See <i>N</i> -Nitroso- <i>N</i> -ethylurea)	R	2	171
759-73-9	<i>N</i> -Nitroso- <i>N</i> -ethylurea ( <i>N</i> -Ethyl- <i>N</i> -nitrosourea; ENU)	R	2	171
924-16-3	<i>N</i> -Nitrosodi- <i>n</i> -butylamine	R	2	165
930-55-2	<i>N</i> -Nitrosopyrrolidine	R	2	176
1116-54-7	<i>N</i> -Nitrosodietanolamine	R	2	166
1120-71-4	1,3-Propane Sultone	R	4	192

CAS Registry Number Index (Continued)

CASRN	NAME OR SYNONYM	Listing in the 9 <sup>th</sup> RoC <sup>a</sup>	FIRST LISTED <sup>b</sup>	Page No. III-
1271-28-9	Nickelocene (under Nickel and Certain Nickel Compounds)	R	1	155
1302-52-9	Beryl Ore (under Beryllium and Certain Beryllium Compounds)	R	2	76
1304-56-9	Beryllium Oxide (under Beryllium and Certain Beryllium Compounds)	R	2	76
1306-19-0	<b>Cadmium Oxide (under Cadmium and Cadmium Compounds)</b>	K	1 <sup>c</sup> 9 <sup>d</sup>	17
1306-23-6	<b>Cadmium Sulfide (under Cadmium and Cadmium Compounds)</b>	K	1 <sup>c</sup> 9 <sup>d</sup>	17
1313-99-1	Nickel Oxide (under Nickel and Certain Nickel Compounds)	R	1	155
1314-20-1	Thorium Dioxide	K	2	59
1332-21-4	Asbestos	K	1	6
1336-36-3	PCBs (under Polychlorinated Biphenyls)	R	2	186
1336-36-3	Polychlorinated Biphenyls (PCBs)	R	2	186
1402-68-2	Aflatoxins	K	1	1
1464-53-5	Diepoxybutane	R	3	110
1746-01-6	<b>2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)<sup>e</sup></b>	R	2 <sup>c</sup> 9 <sup>d</sup>	199
1836-75-5	Nitrofen	R	3	163
1937-37-7	<b>Direct Black 38</b>	K	3 <sup>c</sup> 9 <sup>d</sup>	31
2385-85-5	Mirex	R	2	154
2475-45-8	Disperse Blue 1	R	8	124
2602-46-2	<b>Direct Blue 6</b>	K	3 <sup>c</sup> 9 <sup>d</sup>	32
3165-93-3	<i>p</i> -Chloro- <i>o</i> -toluidine Hydrochloride	R	8	90
3333-67-3	Nickel Carbonate (under Nickel and Certain Nickel Compounds)	R	1	155
3697-24-3	5-Methylchrysene (under Polycyclic Aromatic Hydrocarbons, 15 Listings)	R	2	187
3817-11-6	<i>N</i> -Nitroso- <i>n</i> -butyl- <i>N</i> -(4-hydroxybutyl)amine (under <i>N</i> -Nitrosodi- <i>n</i> -butylamine)	R	2	165
4342-03-4	Dacarbazine	R	4	95
4549-40-0	<i>N</i> -Nitrosomethylvinylamine	R	2	173
5522-43-0	1-Nitropyrene	R	8	161
7280-37-7	Piperazine Estrone Sulfate (under Conjugated Estrogens)	K	4	25
7440-02-0	Nickel (under Nickel and Certain Nickel Compounds)	R	1	155
7440-41-7	Beryllium (under Beryllium and Certain Beryllium Compounds)	R	2	76
7440-43-9	<b>Cadmium (under Cadmium and Cadmium Compounds)</b>	K	1 <sup>c</sup> 9 <sup>d</sup>	17

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
7446-27-7	Lead Phosphate	R	2	145
7446-34-6	Selenium Sulfide	R	3	197
7496-02-8	6-Nitrochrysene	R	8	161
7758-97-6	Lead Chromate (under Chromium Hexavalent Compounds)	K	1	22
7787-47-5	Beryllium Chloride (under Beryllium and Certain Beryllium Compounds)	R	2	76
7787-49-7	Beryllium Fluoride (under Beryllium and Certain Beryllium Compounds)	R	2	76
7787-56-6	Beryllium Sulfate Tetrahydrate (under Beryllium and Certain Beryllium Compounds)	R	2	76
7789-06-2	Strontium Chromate (under Chromium Hexavalent Compounds)	K	1	22
8001-35-2	Toxaphene	R	2	208
8001-58-9	Creosote (Coal) (under Tars and Mineral Oils)	K	4	54
8007-45-2	Coal Tar (under Tars and Mineral Oils)	K	4	54
8021-39-4	Creosote (Wood) (under Tars and Mineral Oils)	K	4	54
9004-66-4	Iron Dextran Complex	R	2	142
10034-93-2	Hydrazine Sulfate	R	3	140
10043-92-2	Radon	K	7	42
<b>10108-64-2</b>	<b>Cadmium Chloride (under Cadmium and Cadmium Compounds)</b>	<b>K</b>	<b>1<sup>c</sup> 9<sup>d</sup></b>	<b>17</b>
<b>10124-36-4</b>	<b>Cadmium Sulfate (under Cadmium and Cadmium Compounds)</b>	<b>K</b>	<b>1<sup>c</sup> 9<sup>d</sup></b>	<b>17</b>
<b>10540-29-1</b>	<b>Tamoxifen</b>	<b>K</b>	<b>9</b>	<b>53</b>
11096-82-5	Aroclor® 1260 (under Polychlorinated Biphenyls)	R	3	186
11097-69-1	Aroclor® 1254 (under Polychlorinated Biphenyls)	R	2	186
11113-74-9	Nickel Hydroxide (under Nickel and Certain Nickel Compounds)	R	1	155
12035-72-2	Nickel Subsulfide (under Nickel and Certain Nickel Compounds)	R	1	155
12054-48-7	Nickel Hydroxide (under Nickel and Certain Nickel Compounds)	R	1	155
12770-50-2	Beryllium Aluminum Alloy (under Beryllium and Certain Beryllium Compounds)	R	2	76
13010-47-4	CCNU [See 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea]	R	4	86
13010-47-4	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	R	4	86
13256-22-9	<i>N</i> -Nitrososarcosine	R	2	177
13327-32-7	Beryllium Hydroxide (under Beryllium and Certain Beryllium Compounds)	R	2	76
13463-39-3	Nickel Carbonyl (under Nickel and Certain Nickel Compounds)	R	1	155
13510-49-1	Beryllium sulfate	R	2	76

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
13530-65-9	Zinc Chromate (under Chromium Hexavalent Compounds)	K	1	22
13552-44-8	4,4'-Methylenedianiline Dihydrochloride	R	4	150
13598-15-7	Beryllium Phosphate (under Beryllium and Certain Beryllium Compounds)	R	2	76
13654-09-6	Decabromobiphenyl (Under Polybrominated Biphenyls)	R	3	185
13909-09-6	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (MeCCNU)	K	6	22
13909-09-6	MeCCNU [See 1-(2-Chloroethyl)-3-(4-methylhexyl)-1-nitrosourea]	K	6	22
14464-46-1	Cristobalite (under Silica, Crystalline [Respirable Size])	K	6 <sup>c</sup> 9 <sup>d</sup>	43
14808-60-7	Quartz (under Silica, Crystalline [Respirable Size])	K	6 <sup>c</sup> 9 <sup>d</sup>	43
15468-32-3	Tridymite (under Silica, Crystalline [Respirable Size])	K	6 <sup>c</sup> 9 <sup>d</sup>	43
15663-27-1	Cisplatin	R	6	93
16543-55-8	<i>N</i> -Nitrosonornicotine	R	2	174
16680-47-0	Sodium Equilin Sulfate (under Conjugated Estrogens)	K	4	25
18883-66-4	Streptozotocin	R	2	198
25013-16-5	Butylated Hydroxyanisole (BHA)	R	6	80
25316-40-9	Adriamycin® (Doxorubicin hydrochloride)	R	4	70
25316-40-9	Doxorubicin hydrochloride (See Adriamycin®)	R	4	70
26471-62-5	Toluene Diisocyanate	R	4	205
37317-41-2	Kanechlor® 500 (under Polychlorinated Biphenyls)	R	3	186
38252-74-3	<i>N</i> -Nitroso- <i>n</i> -butyl- <i>N</i> -(3-carboxypropyl)amine (under <i>N</i> -Nitrosodi- <i>n</i> -butylamine)	R	2	165
39156-41-7	2,4-Diaminoanisole Sulfate	R	3	98
39413-47-3	Beryllium Zinc Silicate (under Beryllium and Certain Beryllium Compounds)	R	2	76
42397-64-8	1,6-Dinitropyrene	R	8	159
42397-65-9	1,8-Dinitropyrene	R	8	160
54749-90-5	Chlorozotocin	R	8	92
57835-92-4	4-Nitropyrene	R	8	162
59865-13-3	Cyclosporin A (Cyclosporine A; Ciclosporin)	K	8	27
61288-13-9	Octabromobiphenyl (Under Polybrominated Biphenyls)	R	3	185
64091-91-4	4-( <i>N</i> -Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	R	6	171
64091-91-4	NNK [See 4-( <i>N</i> -Nitrosomethylamino)-1-(3-pyridyl)-1-butanone]	R	6	171
66733-21-9	Erionite	K	1	34

**CAS Registry Number Index (Continued)**

<b>CASRN</b>	<b>NAME OR SYNONYM</b>	<b>Listing in the 9<sup>th</sup> RoC<sup>a</sup></b>	<b>FIRST LISTED<sup>b</sup></b>	<b>Page No. III-</b>
67774-32-7	FireMaster FF-1 (Hexabromobiphenyl; under Polybrominated Biphenyls)	R	3	185
67774-32-7	Hexabromobiphenyl (FireMaster FF-1, Under Polybrominated Biphenyls)	R	3	185
108171-26-2	Chlorinated Paraffins (C <sub>12</sub> , 60% Chlorine)	R	5	85

a KNOWN (K) = *Known to be a human carcinogen*

RAHC (R) = *Reasonably anticipated to be a human carcinogen*

b Numbers designate the number of the Report on Carcinogens when first listed.

1 = First Annual Report on Carcinogens, 1980

2 = Second Annual Report on Carcinogens, 1981

3 = Third Annual Report on Carcinogens, 1983

4 = Fourth Annual Report on Carcinogens, 1985

5 = Fifth Annual Report on Carcinogens, 1989

6 = Sixth Annual Report on Carcinogens, 1991

7 = Seventh Annual Report on Carcinogens, 1994

8 = Eighth Report on Carcinogens, 1998

9 = Ninth Report on Carcinogens, 2000

c First listed as reasonably anticipated to be a human carcinogen

d First listed as known human carcinogen

e This substance has been proposed for upgrade to the *Known to be a Human Carcinogen* category. The proposed listing is currently in litigation. Depending on the outcome of the litigation an [addendum](#) may be published following the Court's ruling.

Bold entries indicate new listing in *The Report on Carcinogens, Eighth Edition*

## **Appendix C**

### **US EPA Chemical “List of Lists”**



# LIST OF LISTS



## Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act

- EPCRA Section 302 Extremely Hazardous Substances
- CERCLA Hazardous Substances
- EPCRA Section 313 Toxic Chemicals
- CAA 112(r) Regulated Chemicals For Accidental Release Prevention

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**LIST OF LISTS**  
**Consolidated List of Chemicals Subject to the Emergency Planning and  
Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act**

This consolidated chemical list includes chemicals subject to reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)<sup>1</sup>, and chemicals listed under section 112(r) of the Clean Air Act (CAA). This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 313 of EPCRA and, for a specific chemical, what reports may need to be submitted. It will also help firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of Resource Conservation and Recovery Act (RCRA) waste streams and unlisted hazardous wastes, and of radionuclides reportable under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). These lists should be used as a reference tool, not as a definitive source of compliance information. Compliance information for EPCRA is published in the Code of Federal Regulations (CFR), 40 CFR Parts 302, 355, and 372. Compliance information for CAA section 112(r) is published in 40 CFR Part 68. This document is also available in a searchable database format at <http://www.epa.gov/ceppo/ap-otgu.htm>.

The chemicals on the consolidated list are ordered both by the Chemical Abstracts Service (CAS) registry number and alphabetically. For the list ordered by CAS number, categories of chemicals which generally do not have CAS registry numbers, but which are cited under CERCLA, are placed at the front of the list. EPCRA section 313 categories are placed at the end of the list with their 313 category code.

The lists include chemicals referenced under five federal statutory provisions, discussed below. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names. For example, for CAS number 8001-35-2, the names toxaphene (from the section 313 list), camphechlor (from the section 302 list), and camphene, octachloro- (from the CERCLA list) all appear on this consolidated list. The chemical names on the consolidated lists generally are those names used in the regulatory programs developed under EPCRA, CERCLA, and CAA section 112(r), but each chemical may have other synonyms that do not appear on these lists.

(1) **EPCRA Section 302 Extremely Hazardous Substances (EHSs)**

The presence of EHSs in quantities at or above the Threshold Planning Quantity (TPQ) requires certain emergency planning activities to be conducted. The extremely hazardous substances and their TPQs are listed in 40 CFR Part 355, Appendices A and B. For section 302 EHSs, Local Emergency Planning Committees (LEPCs) must develop emergency response plans and facilities must notify the State Emergency Response Commission (SERC) and LEPC if they receive or produce the substance on site at or above the EHS's TPQ. Additionally if the TPQ is met, facilities with a listed EHS are subject to the reporting requirements of EPCRA section 311 (provide material safety data sheet or a list of covered chemicals to the SERC, LEPC, and local fire department) and section 312 (submit inventory

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<sup>1</sup> This consolidated list does not include all chemicals subject to the reporting requirements in EPCRA sections 311 and 312. These hazardous chemicals, for which material safety data sheets (MSDS) must be developed under the Hazard Communication Standard (29 CFR 1910.1200), are identified by broad criteria, rather than by enumeration. There are over 500,000 products that satisfy the criteria. See 40 CFR Part 370 for more information.

form - Tier I or Tier II). The minimum threshold for section 311-312 reporting for EHS substances is 500 pounds or the TPQ, whichever is less.

**TPQ.** The consolidated list presents the TPQ (in pounds) for section 302 chemicals in the column following the CAS number. For chemicals that are solids, there may be two TPQs given (e.g., 500/10,000). In these cases, the lower quantity applies for solids in powder form with particle size less than 100 microns, or if the substance is in solution or in molten form. Otherwise, the 10,000 pound TPQ applies.

**EHS RQ.** Releases of reportable quantities (RQ) of EHSs are subject to state and local reporting under section 304 of EPCRA. EPA has promulgated a rule (61 FR 20473, May 7, 1996) that adjusted RQs for EHSs without CERCLA RQs to levels equal to their TPQs. The EHS RQ column lists these adjusted RQs for EHSs not listed under CERCLA and the CERCLA RQs for those EHSs that are CERCLA hazardous substances (see the next section for a discussion of CERCLA Rqs).

Note that ammonium hydroxide is not covered under section 302; the EHS RQ is based on anhydrous ammonia. Ammonium hydroxide (which is also known as aqueous ammonia) is subject to CERCLA, with its own RQ.

(2) **CERCLA Hazardous Substances**

Releases of CERCLA hazardous substances, in quantities equal to or greater than their reportable quantity (RQ), are subject to reporting to the National Response Center under CERCLA. Such releases are also subject to state and local reporting under section 304 of EPCRA. CERCLA hazardous substances, and their reportable quantities, are listed in 40 CFR Part 302, Table 302.4. Radionuclides listed under CERCLA are provided in a separate list, with RQs in Curies.

**RQ.** The CERCLA RQ column in the consolidated list shows the RQs (in pounds) for chemicals that are CERCLA hazardous substances. Carbamate wastes under RCRA that have been added to the CERCLA list with statutory one-pound RQs are indicated by an asterisk ("\*") following the RQ.

**Metals.** For metals listed under CERCLA (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc), no reporting of releases of the solid form is required if the mean diameter of the pieces of the solid metal released is greater than 100 micrometers (0.004 inches). The RQs shown on the consolidated list apply to smaller particles.

Note that the consolidated list does not include all CERCLA regulatory synonyms. See 40 CFR Part 302, Table 302.4 for a complete list.

There have been a few additions and deletions to Table 302.4 since this document was last updated (November 1998). Hazardous wastes K174 and K175 have been added to this list. Removed from Table 302.4 are caprolactam (CAS 105-60-2), 2,4,6-tribromophenol (CAS 118-79-6), and K140 floor sweepings, off-specification products and spent filtermedia from the production of 2,4,6-tribromophenol.

**(3) CAA Section 112(r) List of Substances for Accidental Release Prevention**

Under the accident prevention provisions of section 112(r) of the CAA, EPA developed a list of 77 toxic substances and 63 flammable substances. Threshold quantities (TQs) were established for these substances. The list and TQs identify processes subject to accident prevention regulations. The list of substances and TQs and the requirements for risk management programs for accidental release prevention are found in 40 CFR Part 68. This consolidated list includes both the common name for each listed chemical under section 112(r) and the chemical name, if different from the common name, as separate listings.

The CAA section 112(r) list includes several substances in solution that are covered only in concentrations above a specified level. These substances include ammonia (concentration 20% or greater) (CAS number 7664-41-7); hydrochloric acid (37% or greater) (7647-01-0); hydrogen fluoride/hydrofluoric acid (50% or greater) (7664-39-3); and nitric acid (80% or greater) (7697-37-2). Hydrogen chloride (anhydrous) and ammonia (anhydrous) are listed, in addition to the solutions of these substances, with different TQs. Only the anhydrous form of sulfur dioxide (7446-09-5) is covered. These substances are presented on the consolidated list with the concentration limit or specified form (e.g., anhydrous), as they are listed under CAA section 112(r). Flammable fuels used as a fuel or held for sale as a fuel at a retail facility are not subject to the rule.

**TQ.** The CAA section 112(r) TQ column in the consolidated list shows the TQs (in pounds) for chemicals listed for accidental release prevention. The TQ applies to the quantity of substance in a process, not at the facility as a whole.

**(4) EPCRA Section 313 Toxic Chemicals**

Emissions, transfers, and waste management data for chemicals listed under section 313 must be reported annually as part of the community right-to-know provisions of EPCRA (40 CFR Part 372).

**Section 313.** The notation "313" in the column for section 313 indicates that the chemical is subject to reporting under section 313 and section 6607 of the Pollution Prevention Act under the name listed. In cases where a chemical is listed under section 313 with a second name in parentheses or brackets, the second name is included on this consolidated list with an "X" in the section 313 column. An "X" in this column also may indicate that the same chemical with the same CAS number appears on another list with a different chemical name. Since the last updating of the list in November 1998, a number of reporting thresholds have changed. These include reporting thresholds for 18 chemicals that meet the EPCRA section 313 criteria for persistence and bioaccumulation, as well as lead and lead compounds (except lead contained in stainless steel, brass, and bronze alloys). Chemicals that have had reporting thresholds changed are marked with a " ^ " symbol on the list. The revised thresholds are listed at the end of this section.

*Diisocyanates, Dioxins and Dioxin-like Compounds, and PACs.* In the November 30, 1994, expansion of the section 313 list, 20 specific chemicals were added as members of the diisocyanate category, and 19 specific chemicals were added as members of the polycyclic aromatic compounds (PAC) category. In October 1999, EPA added a category of dioxin and dioxin-like compounds that includes 17 specific chemicals. These chemicals are included in the CAS order listing on this consolidated list. The symbol "#" following the "313" notation in the section 313 column identifies diisocyanates, the symbol "!" identifies the dioxin and dioxin-like compounds, and the symbol "+"

identifies PACs, as noted in the Summary of Codes. Chemicals belonging to these categories are reportable under section 313 by category, rather than by individual chemical name.

*Ammonium Salts.* The EPCRA section listing for ammonia includes the following qualifier “includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing”. The qualifier for ammonia means that anhydrous forms of ammonia are 100% reportable and aqueous forms are limited to 10% of total aqueous ammonia. Therefore, when determining threshold and releases and other waste management quantities all anhydrous ammonia is included but only 10% of total aqueous ammonia is included. Any evaporation of ammonia from aqueous ammonia solutions is considered anhydrous ammonia and should be included in threshold determinations and release and other waste management calculations.

In this document ammonium salts are not specifically identified as being reportable EPCRA section 313 chemicals. However, water dissociable ammonia salts, such as ammonium chloride, are reportable if they are placed in water. When ammonium salts are placed in water, reportable aqueous ammonia is manufactured. As indicated in the ammonia qualifier, all aqueous ammonia solutions from water dissociable ammonium salts are covered by the ammonia listing. For example, ammonium chloride is a water dissociable ammonium salt and reportable aqueous ammonia will be manufactured when it is placed in water.

Unlike other ammonium salts, ammonium hydroxide is specifically identified as being a reportable EPCRA section 313 chemical. This is because the chemical ammonium hydroxide (NH<sub>4</sub>OH) is a misnomer. It is a common name used to describe a solution of ammonia in water (i.e., aqueous ammonia), typically a concentrated solution of 28 to 30 percent ammonia. EPA has consistently responded to questions regarding the reportability of these purported ammonium hydroxide solutions under the EPCRA Section 313 ammonia listing by stating that these are 28 to 30 percent solutions of ammonia in water and that the solutions are reportable under the EPCRA Section 313 ammonia listing. For a more detailed discussion, see page 34175 of the Federal Register final rule of June 30, 1995 (60 FR 34172). (See also EPA’s EPCRA section 313, *Guidance for Reporting Aqueous Ammonia*, EPA 745-R-00-005, [www.epa.gov/TRI](http://www.epa.gov/TRI))

*Additions.* Added to the list of toxic chemicals subject to reporting under EPCRA section 313 are seven chemicals and two chemical compound categories. These are:

Chemicals	CAS
1) benzo(g,h,i)perylene .....	191242
2) benzo(j,k)fluorine (as a member of the PACs category) .....	206440
3) 3-methylcholanthrene (as a member of the PACs category) .....	56495
4) octachlorostyrene .....	29082744
5) pentachlorobenzene .....	608935
6) tetrabromobisphenol A .....	79947
7) vanadium (except when contained in an alloy) .....	7440622

Chemical Categories	Category Code
1) vanadium compounds .....	N770

2) dioxin and dioxin like compounds (Manufacturing; and the processing or otherwise use of dioxin and dioxin like compounds if the dioxin and dioxin-like compounds are present as contaminants in a chemical and if they were created during the manufacturing of that chemical) ..... N150

*Stayed Chemicals.* There are three EPRCA section 313 chemicals that are listed in the CFR but for which the Agency has issued an administrative stay that excludes them from reporting until the stays are lifted. These chemicals, identified by “313s” in the Sec. 313 table column, are methyl mercaptan (CAS number 74-93-1), hydrogen sulfide (CAS number 7783-06-4), and 2,2-dibromo-3-nitrilopropionamide (CAS number 10222-01-2). Check the TRI website ([www.epa.gov/triexplorer](http://www.epa.gov/triexplorer)) for updated regulatory information.

*TRI Thresholds.* Reporting under EPCRA section 313 is triggered by the quantity of a chemical that is manufactured, processed, or otherwise used during the calendar year. For most TRI chemicals, the thresholds are 25,000 pounds manufactured or processed or 10,000 pound otherwise used. EPA has recently lowered the reporting thresholds for certain chemicals and chemical categories that meet the criteria for persistence and bioaccumulation. The following list provides the thresholds for these chemicals( in pounds unless otherwise noted):

Chemical Name or Category	CAS Number	Threshold (lbs)
Aldrin	309-00-2	100
Benzo(g,h,i)perylene	191-24-2	10
Chlordane	57-74-9	10
Dioxin and dioxin-like compound category (manufacturing; and processing or otherwise use of dioxin and dioxin-like compounds if they are present as contaminants in a chemical and if they were created during the manufacture of that chemical)	NA	0.1 gram
Heptachlor	76-44-8	10
Hexachlorobenzene	118-74-1	10
Isodrin	465-73-6	10
Lead and lead compounds except lead contained in stainless steel, brass, and bronze alloys (applies to reporting for 2001(due July 2002) and later)	NA	100
Methoxychlor	72-43-5	100
Octachlorostyrene	29082-74-4	10
Pendimethalin	40487-42-1	100
Pentachlorobenzene	608-93-5	10
Polycyclic aromatic compounds category	NA	100
Polychlorinated biphenyls (PCBs)	1336-36-3	10

Tetrabromobisphenol A	79-94-7	100
Toxaphene	8001-35-2	10
Trifluralin	1582-09-8	100
Mercury	7439-97-6	10
Mercury compounds	NA	10

### (5) Chemical Categories

The CERCLA and EPCRA section 313 lists include a number of chemical categories as well as specific chemicals. Categories appear on this consolidated list at the end of the CAS number listing. Specific chemicals listed as members of the diisocyanates, dioxin and dioxin-like compounds, and PAC categories under EPCRA section 313 (see section (4) above) are included in the list of specific chemicals by CAS number, not in the category listing. The chemicals on the consolidated list have not been systematically evaluated to determine whether they fall into any of the CERCLA listed categories, but EPA has attempted to identify those listed chemicals that are clearly reportable under one or more of the EPCRA section 313 categories.

Some chemicals not specifically listed under CERCLA may be subject to CERCLA reporting as part of a category. For example, strychnine sulfate (CAS number 60-41-3), listed under EPCRA section 302, is not individually listed on the CERCLA list, but is subject to CERCLA reporting under the listing for strychnine and salts (CAS number 57-24-9), with an RQ of 10 pounds. Similarly, nicotine sulfate (CAS number 65-30-5) is subject to CERCLA reporting under the listing for nicotine and salts (CAS number 54-11-5, RQ 100 pounds), and warfarin sodium (CAS number 129-06-6) is subject to CERCLA reporting under the listing for warfarin and salts, concentration >0.3% (CAS number 81-81-2, RQ 100 pounds). Note that some CERCLA listings, although they include CAS numbers, are for general categories and are not restricted to the specific CAS number (e.g., warfarin and salts). The CERCLA list also includes a number of generic categories that have not been assigned RQs; chemicals falling into these categories are considered CERCLA hazardous substances, but are not required to be reported under CERCLA unless otherwise listed under CERCLA with an RQ.

A number of chemical categories are subject to EPCRA section 313 reporting. Certain chemicals listed under EPCRA section 302, CERCLA, or CAA section 112(r) may belong to section 313 categories. For example, mercuric acetate (CAS number 1600-27-7), listed under section 302, is not specifically listed under section 313, but is reportable under the section 313 "Mercury Compounds" category (no CAS number). Listed chemicals that have been identified as being reportable under one or more EPCRA section 313 categories are identified by "313c" in the Sec. 313 table column.

### (6) RCRA Hazardous Wastes

The consolidated list includes specific chemicals from the RCRA P and U lists only (40 CFR 261.33). This listing is provided as an indicator that companies may already have data on a specific chemical that may be useful for EPCRA reporting. It is not intended to be a comprehensive list of RCRA P and U chemicals. RCRA hazardous wastes consisting of waste streams on the F and K lists, and wastes exhibiting the characteristics of ignitability, corrosivity, reactivity, and toxicity, are provided in a

separate list. This list also includes carbamate wastes added to the CERCLA list with one-pound statutory RQs (indicated by an asterisk ("\*") following the RQ). The descriptions of the F and K waste streams have been abbreviated; see 40 CFR Part 302, Table 302.4, or 40 CFR Part 261 for complete descriptions.

**RCRA Code.** The letter-and-digit code in the RCRA Code column is the chemical's RCRA hazardous waste code.

#### Summary of Codes

- ^ Reporting threshold has changed since November 1998.
- + Member of PAC category.
- # Member of diisocyanate category.
- X Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
- \* RCRA carbamate waste; statutory one-pound RQ applies until RQs are adjusted.
- \*\* This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
- \*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 *Federal Register* 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.
- c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
- s Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
- ! Member of the dioxin and dioxin-like compounds category.

**LIST OF LISTS**  
**CONSOLIDATED LIST OF CHEMICALS (BY CAS NUMBER) SUBJECT TO THE EMERGENCY PLANNING AND  
 COMMUNITY RIGHT-TO-KNOW ACT (EPCRA) AND SECTION 112(r) OF THE CLEAN AIR ACT**

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Chlordane (Technical Mixture and Metabolites)	0			***			
Chlorinated Benzenes	0			***			
Chlorinated Ethanes	0			***			
Chlorinated Naphthalene	0			***			
Chloroalkyl Ethers	0			***			
Coke Oven Emissions	0			1			
DDT and Metabolites	0			***			
Dichlorobenzidine	0			***			
Diphenylhydrazine	0			***			
Endosulfan and Metabolites	0			***			
Endrin and Metabolites	0			***			
Fine mineral fibers	0			***			
Haloethers	0			***			
Halomethanes	0			***			
Heptachlor and Metabolites	0			***			
Nitrophenols	0			***			
Nitrosamines	0			***			
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	**			
Phthalate Esters	0			***			
Polycyclic organic matter	0			***			
Polynuclear Aromatic Hydrocarbons	0			***			
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Cyclophosphamide	50-18-0			10		U058	
DDT	50-29-3			1		U061	
Benzo[a]pyrene	50-32-8			1	313+^	U022	
Reserpine	50-55-5			5,000		U200	
Piperonyl butoxide	51-03-6				313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
Fluorouracil	51-21-8	500/10,000	500		313		
2,4-Dinitrophenol	51-28-5			10	313	P048	
Epinephrine	51-43-4			1,000		P042	
2-Chloro-N-(2-chloroethyl)-N-methylethanamine	51-75-2	10	10		X		
Mechlorethamine	51-75-2	10	10		X		
Nitrogen mustard	51-75-2	10	10		313		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Ethyl carbamate	51-79-6			100	X	U238	
Urethane	51-79-6			100	313	U238	
Carbachol chloride	51-83-2	500/10,000	500				
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	52-68-6			100	X		
Trichlorfon	52-68-6			100	313		
Famphur	52-85-7			1,000	313	P097	
Dibenz[a,h]anthracene	53-70-3			1	313+^	U063	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-Acetylaminofluorene	53-96-3			1	313	U005	
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	54-11-5			100	313c	P075	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-	54-11-5	100	100	100		P075	
Aminopterin	54-62-6	500/10,000	500				
N-Nitrosodiethylamine	55-18-5			1	313	U174	
Benzamide	55-21-0				313		
Fenthion	55-38-9				313		
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
Nitroglycerin	55-63-0			10	313	P081	
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Isofluorophate	55-91-4	100	100	100		P043	
Methylthiouracil	56-04-2			10		U164	
Carbon tetrachloride	56-23-5			10	313	U211	
Cantharidin	56-25-7	100/10,000	100				
Bis(tributyltin) oxide	56-35-9				313		
Parathion	56-38-2	100	10	10	313	P089	
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10	X	P089	
3-Methylcholanthrene	56-49-5			10	313+^	U157	
Diethylstilbestrol	56-53-1			1		U089	
Benz[a]anthracene	56-55-3			10	313+^	U018	
Coumaphos	56-72-4	100/10,000	10	10			
Cyanides (soluble salts and complexes)	57-12-5			10	313c	P030	
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine, and salts	57-24-9			10	313c	P108	
Pentobarbital sodium	57-33-0				313		
Phenytoin	57-41-0				313		
Physostigmine	57-47-6	100/10,000	1*	1*		P204	
beta-Propiolactone	57-57-8	500	10	10	313		
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	1*	1*		P188	
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
Chlordane	57-74-9	1,000	1	1	313^	U036	
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+^	U094	
Phenoxarsine, 10,10'-oxydi-	58-36-6	500/10,000	500				
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alph.a,6.beta.)-	58-89-9	1,000/10,000	1	1	X	U129	
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X	U129	
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
p-Chloro-m-cresol	59-50-7			5,000		U039	
Phenylhydrazine hydrochloride	59-88-1	1,000/10,000	1,000				
N-Nitrosomorpholine	59-89-2			1	313		
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			
4-Aminoazobenzene	60-09-3				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000
Ethyl ether	60-29-7			100		U117	10,000
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Acetamide	60-35-5			100	313		
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
Dieldrin	60-57-1			1		P037	
Amitrole	61-82-5			10	313	U011	
Phenylmercuric acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenacetin	62-44-2			100		U187	
Ethyl methanesulfonate	62-50-0			1		U119	
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Thioacetamide	62-55-5			10	313	U218	
Thiourea	62-56-6			10	313	U219	
Dichlorvos	62-73-7	1,000	10	10	313		
Phosphoric acid, 2-dichloroethyl dimethyl ester	62-73-7	1,000	10	10	X		
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Carbaryl	63-25-2			100	313	U279	
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	1*	1*		P202	
Formic acid	64-18-6			5,000	313	U123	
Acetic acid	64-19-7			5,000			
Diethyl sulfate	64-67-5			10	313		
Tetracycline hydrochloride	64-75-5				313		
Colchicine	64-86-8	10/10,000	10				
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Benzoic acid	65-85-0			5,000			
Uracil mustard	66-75-1			10		U237	
Cycloheximide	66-81-9	100/10,000	100				
Methanol	67-56-1			5,000	313	U154	
Isopropyl alcohol (mfg-strong acid process)	67-63-0				313		
Acetone	67-64-1			5,000		U002	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
Hexachloroethane	67-72-1			100	313	U131	
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		
Triaziquone	68-76-8				313		
Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7			10		U163	
Hexachlorophene	70-30-4			100	313	U132	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
n-Butyl alcohol	71-36-3			5,000	313	U031	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzene	71-43-2			10	313	U019	
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
Methyl chloroform	71-55-6			1,000	X	U226	
Digitoxin	71-63-6	100/10,000	100				
Endrin	72-20-8	500/10,000	1	1		P051	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Methoxychlor	72-43-5			1	313^	U247	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
Trypan blue	72-57-1			10	313	U236	
Methane	74-82-8						10,000
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
Ethane	74-84-0						10,000
Ethene	74-85-1				X		10,000
Ethylene	74-85-1				313		10,000
Acetylene	74-86-2						10,000
Ethyne	74-86-2						10,000
Chloromethane	74-87-3			100	313	U045	10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl iodide	74-88-4			100	313	U138	
Methanamine	74-89-5			100			10,000
Monomethylamine	74-89-5			100			10,000
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Methanethiol	74-93-1	500	100	100	X	U153	10,000
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Thiomethanol	74-93-1	500	100	100	X	U153	10,000
Methylene bromide	74-95-3			1,000	313	U068	
Propane	74-98-6						10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Chloroethane	75-00-3			100	313		10,000
Ethane, chloro-	75-00-3			100	X		10,000
Ethyl chloride	75-00-3			100	X		10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Vinyl chloride	75-01-4			1	313	U043	10,000
Ethene, fluoro-	75-02-5						10,000
Vinyl fluoride	75-02-5						10,000
Ethanamine	75-04-7			100			10,000
Monoethylamine	75-04-7			100			10,000
Acetonitrile	75-05-8			5,000	313	U003	
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Ethanethiol	75-08-1						10,000
Ethyl mercaptan	75-08-1						10,000
Dichloromethane	75-09-2			1,000	313	U080	
Methylene chloride	75-09-2			1,000	X	U080	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Cyclopropane	75-19-4						10,000
Calcium carbide	75-20-7			10			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Bromoform	75-25-2			100	313	U225	
Tribromomethane	75-25-2			100	X	U225	
Dichlorobromomethane	75-27-4			5,000	313		
Isobutane	75-28-5						10,000
Propane, 2-methyl	75-28-5						10,000
Isopropyl chloride	75-29-6						10,000
Propane, 2-chloro-	75-29-6						10,000
2-Propanamine	75-31-0						10,000
Isopropylamine	75-31-0						10,000
1,1-Dichloroethane	75-34-3			1,000	X	U076	
Ethyldene Dichloride	75-34-3			1,000	313	U076	
1,1-Dichloroethylene	75-35-4			100	X	U078	10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Acetyl chloride	75-36-5			5,000		U006	
Difluoroethane	75-37-6						10,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Vinylidene fluoride	75-38-7						10,000
Dichlorofluoromethane	75-43-4				313		
HCFC-21	75-43-4				X		
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Phosgene	75-44-5	10	10	10	313	P095	500
Chlorodifluoromethane	75-45-6				313		
HCFC-22	75-45-6				X		
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Trimethylamine	75-50-3			100			10,000
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
Cacodylic acid	75-60-5			1		U136	
Bromotrifluoromethane	75-63-8				313		
Halon 1301	75-63-8				X		
tert-Butylamine	75-64-9			1,000			
tert-Butyl alcohol	75-65-0				313		
1-Chloro-1,1-difluoroethane	75-68-3				313		
HCFC-142b	75-68-3				X		
CFC-11	75-69-4			5,000	X	U121	
Trichlorofluoromethane	75-69-4			5,000	313	U121	
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
Dichlorodifluoromethane	75-71-8			5,000	313	U075	
CFC-13	75-72-9				X		
Chlorotrifluoromethane	75-72-9				313		
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Tetramethyllead	75-74-1	100	100		313c		10,000
Silane, tetramethyl-	75-76-3						10,000
Tetramethylsilane	75-76-3						10,000
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
Dimethyldichlorosilane	75-78-5	500	500				5,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Methyltrichlorosilane	75-79-6	500	500				5,000
Silane, trichloromethyl-	75-79-6	500	500				5,000
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
HCFC-133a	75-88-7				X		
2,2-Dichloropropionic acid	75-99-0			5,000			
Pentachloroethane	76-01-7			10	313	U184	
Trichloroacetyl chloride	76-02-8	500	500		313		
Chloropicrin	76-06-2				313		
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Freon 113	76-13-1				313		
CFC-114	76-14-2				X		
Dichlorotetrafluoroethane	76-14-2				313		
CFC-115	76-15-3				X		
Monochloropentafluoroethane	76-15-3				313		
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8			1	X	P059	
Heptachlor	76-44-8			1	313^	P059	
Triphenyltin hydroxide	76-87-9				313		
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
Dicyclopentadiene	77-73-6				313		
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
Tabun	77-81-6	10	10				
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Dioxathion	78-34-2	500	500				
DEF	78-48-8				X		
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Amiton	78-53-5	500	500				
Isophorone	78-59-1			5,000			
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Butane, 2-methyl-	78-78-4						10,000
Isopentane	78-78-4						10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Isoprene	78-79-5			100			10,000
iso-Butylamine	78-81-9			1,000			
Isobutyronitrile	78-82-0	1,000	1,000				20,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
1,2-Dichloropropane	78-87-5			1,000	313	U083	
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
2,3-Dichloropropene	78-88-6			100	313		
sec-Butyl alcohol	78-92-2				313		
Methyl ethyl ketone	78-93-3			5,000	313	U159	
Methyl ethyl ketone (MEK)	78-93-3			5,000	X	U159	
Methyl vinyl ketone	78-94-4	10	10				
Lactonitrile	78-97-7	1,000	1,000				

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,1-Dichloropropane	78-99-9			1,000			
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Propionic acid	79-09-4			5,000			
Acrylic acid	79-10-7			5,000	313	U008	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Ethaneperoxyic acid	79-21-0	500	500		X		10,000
Peracetic acid	79-21-0	500	500		313		10,000
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
iso-Butyric acid	79-31-2			5,000			
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
Ethene, chlorotrifluoro-	79-38-9						10,000
Trifluorochloroethylene	79-38-9						10,000
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
2-Nitropropane	79-46-9			10	313	U171	
Tetrabromobisphenol A	79-94-7				313^		
4,4'-Isopropylidenediphenol	80-05-7				313		
Cumene hydroperoxide	80-15-9			10	313	U096	
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Methyl methacrylate	80-62-6			1,000	313	U162	
Methyl 2-chloroacrylate	80-63-7	500	500				
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	
C.I. Food Red 15	81-88-9				313		
1-Amino-2-methylanthraquinone	82-28-0				313		
Diphacinone	82-66-6	10/10,000	10				
PCNB	82-68-8			100	X	U185	
Pentachloronitrobenzene	82-68-8			100	X	U185	
Quintozene	82-68-8			100	313	U185	
Acenaphthene	83-32-9			100			
Diethyl phthalate	84-66-2			1,000		U088	
Dibutyl phthalate	84-74-2			10	313	U069	
n-Butyl phthalate	84-74-2			10	X	U069	
Diquat	85-00-7			1,000			
Phenanthrene	85-01-8			5,000	313		
Phthalic anhydride	85-44-9			5,000	313	U190	
Butyl benzyl phthalate	85-68-7			100			
N-Nitrosodiphenylamine	86-30-6			100	313		
Azinphos-methyl	86-50-0	10/10,000	1	1			
Guthion	86-50-0	10/10,000	1	1			
Fluorene	86-73-7			5,000			
ANTU	86-88-4	500/10,000	100	100		P072	
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
2,6-Xyldine	87-62-7				313		
2,6-Dichlorophenol	87-65-0			100		U082	
Hexachloro-1,3-butadiene	87-68-3			1	313	U128	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hexachlorobutadiene	87-68-3			1	X	U128	
PCP	87-86-5			10	X		
Pentachlorophenol	87-86-5			10	313		
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
2,4,6-Trichlorophenol	88-06-2			10	313		
o-Nitrotoluene	88-72-2			1,000			
2-Nitrophenol	88-75-5			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Picric acid	88-89-1				313		
o-Anisidine	90-04-0			100	313		
2-Phenylphenol	90-43-7				313		
Michler's ketone	90-94-8				313		
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Naphthalene	91-20-3			100	313	U165	
Quinoline	91-22-5			5,000	313		
2-Chloronaphthalene	91-58-7			5,000		U047	
beta-Naphthylamine	91-59-8			10	313	U168	
N,N-Diethylaniline	91-66-7			1,000			
Methapyrilene	91-80-5			5,000		U155	
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dichlorobenzidine	91-94-1			1	313	U073	
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
Biphenyl	92-52-4			100	313		
4-Aminobiphenyl	92-67-1			1	313		
Benzidine	92-87-5			1	313	U021	
4-Nitrobiphenyl	92-93-3			10	313		
Mecoprop	93-65-2				313		
Silvex (2,4,5-TP)	93-72-1			100			
2,4,5-T acid	93-76-5			1,000			
2,4,5-T esters	93-79-8			1,000			
2,4-D Esters	94-11-1			100	X		
2,4-D isopropyl ester	94-11-1			100	313		
Benzoyl peroxide	94-36-0				313		
Dihydrosafrole	94-58-6			10	313	U090	
Safrole	94-59-7			100	313	U203	
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
MCPA	94-74-6				X		
Methoxone	94-74-6				313		
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D, salts and esters	94-75-7			100		U240	
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
2,4-D Esters	94-79-1			100			
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-80-4			100	X		
2,4-DB	94-82-6				313		
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
o-Xylene	95-47-6			1,000	313	U239	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
1,2-Dichlorobenzene	95-50-1			100	313	U070	
o-Dichlorobenzene	95-50-1			100	X	U070	
o-Toluidine	95-53-4			100	313	U328	
1,2-Phenylenediamine	95-54-5				313		
2-Chlorophenol	95-57-8			100		U048	
1,2,4-Trimethylbenzene	95-63-6				313		
p-Chloro-o-toluidine	95-69-2				313		
2,4-Diaminotoluene	95-80-7			10	313		
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,4,5-Trichlorophenol	95-95-4			10	313		
Styrene oxide	96-09-3			100	313		
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
DBCP	96-12-8			1	X	U066	
1,2,3-Trichloropropane	96-18-4				313		
Methyl acrylate	96-33-3				313		
Ethylene thiourea	96-45-7			10	313	U116	
2,2'-Methylenebis(4-chlorophenol)	97-23-4				X		
Dichlorophene	97-23-4				313		
C.I. Solvent Yellow 3	97-56-3				313		
Ethyl methacrylate	97-63-2			1,000		U118	
Furfural	98-01-1			5,000		U125	
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzotrichloride	98-07-7	100	10	10	X	U023	
Benzenesulfonyl chloride	98-09-9			100		U020	
Trichlorophenylsilane	98-13-5	500	500				
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Cumene	98-82-8			5,000	313	U055	
Acetophenone	98-86-2			5,000	313	U004	
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzoyl chloride	98-88-4			1,000	313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
m-Nitrotoluene	99-08-1			1,000			
2,6-Dichloro-4-nitroaniline	99-30-9				X		
Dichloran	99-30-9				313		
1,3,5-Trinitrobenzene	99-35-4			10		U234	
5-Nitro-o-toluidine	99-55-8			100	313	U181	
5-Nitro-o-anisidine	99-59-2				313		
m-Dinitrobenzene	99-65-0			100	313		
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
p-Nitrotoluene	99-99-0			1,000			
p-Nitroaniline	100-01-6			5,000	313	P077	
4-Nitrophenol	100-02-7			100	313	U170	
p-Nitrophenol	100-02-7			100	X	U170	
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
p-Dinitrobenzene	100-25-4			100	313		
Ethylbenzene	100-41-4			1,000	313		
Styrene	100-42-5			1,000	313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzonitrile	100-47-0			5,000			
N-Nitrosopiperidine	100-75-4			10	313	U179	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
Anilazine	101-05-3				313		
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
MBOCA	101-14-4			10	X	U158	
Barban	101-27-9			1*		U280	
4-Bromophenyl phenyl ether	101-55-3			100		U030	
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
MDI	101-68-8			5,000	X		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
4,4'-Methylenedianiline	101-77-9			10	313		
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diglycidyl resorcinol ether	101-90-6				313		
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
p-Chlorophenyl isocyanate	104-12-1				313		
1,4-Phenylene diisocyanate	104-49-4				313#		
p-Anisidine	104-94-9				313		
sec-Butyl acetate	105-46-4			5,000			
2,4-Dimethylphenol	105-67-9			100	313	U101	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
p-Xylene	106-42-3			100	313	U239	
p-Cresol	106-44-5			100	313	U052	
1,4-Dichlorobenzene	106-46-7			100	313	U072	
p-Chloroaniline	106-47-8			1,000	313	P024	
p-Toluidine	106-49-0			100		U353	
p-Phenylenediamine	106-50-3			5,000	313		
p-Benzoquinone	106-51-4			10	X	U197	
Quinone	106-51-4			10	313	U197	
1,2-Butylene oxide	106-88-7			100	313		
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
1,2-Dibromoethane	106-93-4			1	313	U067	
Ethylene dibromide	106-93-4			1	X	U067	
Propargyl bromide	106-96-7	10	10				
Butane	106-97-8						10,000
1-Butene	106-98-9						10,000
1,3-Butadiene	106-99-0			10	313		10,000
1-Butyne	107-00-6						10,000
Ethyl acetylene	107-00-6						10,000
2-Butene	107-01-7						10,000
2-Propenal	107-02-8	500	1	1	X	P003	5,000
Acrolein	107-02-8	500	1	1	313	P003	5,000
Allyl chloride	107-05-1			1,000	313		
1,2-Dichloroethane	107-06-2			100	313	U077	
Ethylene dichloride	107-06-2			100	X	U077	
Chloroethanol	107-07-3	500	500				
n-Propylamine	107-10-8			5,000		U194	
2-Propen-1-amine	107-11-9	500	500		X		10,000
Allylamine	107-11-9	500	500		313		10,000
Ethyl cyanide	107-12-0	500	10	10		P101	10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propionitrile	107-12-0	500	10	10		P101	10,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
Propargyl alcohol	107-19-7			1,000	313	P102	
Chloroacetaldehyde	107-20-0			1,000		P023	
Ethylene glycol	107-21-1			5,000	313		
Ethene, methoxy-	107-25-5						10,000
Vinyl methyl ether	107-25-5						10,000
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Formic acid, methyl ester	107-31-3						10,000
Methyl formate	107-31-3						10,000
Sarin	107-44-8	10	10				
TEPP	107-49-3	100	10	10		P111	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Butyric acid	107-92-6			5,000			
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
Acetic anhydride	108-24-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
m-Xylene	108-38-3			1,000	313	U239	
m-Cresol	108-39-4			100	313	U052	
1,3-Phenylenediamine	108-45-2				313		
Resorcinol	108-46-3			5,000		U201	
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Dichloroisopropyl ether	108-60-1			1,000	X	U027	
Toluene	108-88-3			1,000	313	U220	
Chlorobenzene	108-90-7			100	313	U037	
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexylamine	108-91-8	10,000	10,000				15,000
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Benzenethiol	108-98-5	500	100	100		P014	
Thiophenol	108-98-5	500	100	100		P014	
2-Methylpyridine	109-06-8			5,000	313	U191	
2-Picoline	109-06-8			5,000	X	U191	
Carbonochloridic acid, propylester	109-61-5	500	500				15,000
Propyl chloroformate	109-61-5	500	500				15,000
Pentane	109-66-0						10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1-Pentene	109-67-1						10,000
Butylamine	109-73-9			1,000			
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
2-Methoxyethanol	109-86-4				313		
Diethylamine	109-89-7			100			
Ethene, ethoxy-	109-92-2						10,000
Vinyl ethyl ether	109-92-2						10,000
Ethyl nitrite	109-95-5						10,000
Nitrous acid, ethyl ester	109-95-5						10,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furan	110-00-9	500	100	100		U124	5,000
Maleic acid	110-16-7			5,000			
Fumaric acid	110-17-8			5,000			
iso-Butyl acetate	110-19-0			5,000			
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
2-Ethoxyethanol	110-80-5			1,000	313	U359	
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
Cyclohexane	110-82-7			1,000	313	U056	
Pyridine	110-86-1			1,000	313	U196	
Piperidine	110-89-4	1,000	1,000				15,000
Diethanolamine	111-42-2			100	313		
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
Ethylenebisdi thiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Adiponitrile	111-69-3	1,000	1,000				
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1			100	X	U411	
Propoxur	114-26-1			100	313	U411	
Azaserine	115-02-6			1		U015	
1-Propene	115-07-1				X		10,000
Propene	115-07-1				X		10,000
Propylene	115-07-1				313		10,000
Methane, oxybis-	115-10-6						10,000
Methyl ether	115-10-6						10,000
1-Propene, 2-methyl-	115-11-7						10,000
2-Methylpropene	115-11-7						10,000
Trichloroethylsilane	115-21-9	500	500				
Dimefox	115-26-4	500	500				
Chlorendic acid	115-28-6				313		
Endosulfan	115-29-7	10/10,000	1	1		P050	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Dicofol	115-32-2			10	313		
Fensulfothion	115-90-2	500	500				
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Ethene, tetrafluoro-	116-14-3						10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Tetrafluoroethylene	116-14-3						10,000
2-Aminoanthraquinone	117-79-3				313		
Dichlone	117-80-6			1			
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
DEHP	117-81-7			100	X	U028	
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-Dioctylphthalate	117-84-0			5,000		U107	
Hexachlorobenzene	118-74-1			10	313^	U127	
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	1*	1*		P192	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
o-Tolidine	119-93-7			10	X	U095	
Anthracene	120-12-7			5,000	313		
2,4-DP	120-36-5				313		
Isosafrole	120-58-1			100	313	U141	
p-Cresidine	120-71-8				313		
Catechol	120-80-9			100	313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
2,4-Dichlorophenol	120-83-2			100	313	U081	
2,4-Dinitrotoluene	121-14-2			10	313	U105	
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Triethylamine	121-44-8			5,000	313	U404	
N,N-Dimethylaniline	121-69-7			100	313		
Malathion	121-75-5			100	313		
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Simazine	122-34-9				313		
Diphenylamine	122-39-4				313		
Propham	122-42-9			1*		U373	
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazobenzene	122-66-7			10	X	U109	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Maleic hydrazide	123-33-1			5,000		U148	
Propionaldehyde	123-38-6			1,000	313		
1,3-Phenylene diisocyanate	123-61-5				313#		
Propionic anhydride	123-62-6			5,000			
Paraldehyde	123-63-7			1,000	313	U182	
Butyraldehyde	123-72-8				313		
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Butyl acetate	123-86-4			5,000			
1,4-Dioxane	123-91-1			100	313	U108	
iso-Amyl acetate	123-92-2			5,000			
Adipic acid	124-04-9			5,000			
Dimethylamine	124-40-3			1,000	313	U092	10,000
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Sodium methylate	124-41-4			1,000			
Chlorodibromomethane	124-48-1			100			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sodium cacodylate	124-65-2	100/10,000	100				
Dibromotetrafluoroethane	124-73-2				313		
Halon 2402	124-73-2				X		
Picrotoxin	124-87-8	500/10,000	500				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
Chloroprene	126-99-8			100	313		
Perchloroethylene	127-18-4			100	X	U210	
Tetrachloroethylene	127-18-4			100	313	U210	
Zinc phenolsulfonate	127-82-2			5,000	313c		
Potassium dimethyldithiocarbamate	128-03-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
C.I. Vat Yellow 4	128-66-5				313		
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
1,4-Naphthoquinone	130-15-4			5,000		U166	
Dimethyl phthalate	131-11-3			5,000	313	U102	
Sodium pentachlorophenate	131-52-2				313		
Ammonium picrate	131-74-8			10		P009	
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Sodium o-phenylphenoxyde	132-27-4				313		
Dibenzofuran	132-64-9			100	313		
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Captan	133-06-2			10	313		
Folpet	133-07-3				313		
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Chloramben	133-90-4			100	313		
o-Anisidine hydrochloride	134-29-2				313		
alpha-Naphthylamine	134-32-7			100	313	U167	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Cupferron	135-20-6				313		
Dipropyl isocinchomeronate	136-45-8				313		
Thiram	137-26-8			10	313	U244	
Ziram	137-30-4			1*		P205	
Potassium N-methyldithiocarbamate	137-41-7				313		
Metham sodium	137-42-8				313		
Sodium methyldithiocarbamate	137-42-8				X		
Disodium cyanodithioimidocarbonate	138-93-2				313		
Nitrilotriacetic acid	139-13-9				313		
3,3'-Dimethylidiphenylmethane-4,4'-diisocyanate	139-25-3				313#		
4,4'-Thiodianiline	139-65-1				313		
Benzyl cyanide	140-29-4	500	500				
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Ethyl acrylate	140-88-5			1,000	313	U113	
Butyl acrylate	141-32-2				313		
Dicrotrophos	141-66-2	100	100				
Ethyl acetate	141-78-6			5,000		U112	
1,3-Dichloropropane	142-28-9			5,000			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nabam	142-59-6				313		
Cupric acetate	142-71-2			100	313c		
Dipropylamine	142-84-7			5,000		U110	
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Kepone	143-50-0			1		U142	
Fluoroacetic acid	144-49-0	10/10,000	10				
Endothall	145-73-3			1,000		P088	
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Thiabendazole	148-79-8				313		
Melphalan	148-82-3			1		U150	
2-Mercaptobenzothiazole	149-30-4				313		
MBT	149-30-4				X		
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
Merphos	150-50-5				313		
Monuron	150-68-5				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Aziridine	151-56-4	500	1	1	X	P054	10,000
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Diphosphoramide, octamethyl-	152-16-9	100	100	100		P085	
p-Nitrosodiphenylamine	156-10-5				313		
1,2-Dichloroethylene	156-60-5			1,000		U079	
Calcium cyanamide	156-62-7			1,000	313		
Benzo(rst)pentaphene	189-55-9			10	313+	U064	
Dibenz[a,i]pyrene	189-55-9			10	X	U064	
Dibenzo(a,h)pyrene	189-64-0				313+^		
Benzo[g,h,i]perylene	191-24-2			5,000	313^		
Dibenzo(a,l)pyrene	191-30-0				313+^		
Dibenzo(a,e)pyrene	192-65-4				313+^		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+^	U137	
7H-Dibenzo(c,g)carbazole	194-59-2				313+^		
Benzo(j)fluoranthene	205-82-3				313+^		
Benzo[b]fluoranthene	205-99-2			1	313+^		
Fluoranthene	206-44-0			100	X	U120	
Benzo(k)fluoranthene	207-08-9			5,000	313+^		
Acenaphthylene	208-96-8			5,000			
Benzo(a)phenanthrene	218-01-9			100	313+^	U050	
Chrysene	218-01-9			100	X	U050	
Dibenz(a,j)acridine	224-42-0				313+^		
Benz[c]acridine	225-51-4			100		U016	
Dibenz(a,h)acridine	226-36-8				313+^		
Isobenzan	297-78-9	100/10,000	100				
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	
Thionazin	297-97-2	500	100	100		P040	
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Phorate	298-02-2	10	10	10		P094	
Disulfoton	298-04-4	500	1	1		P039	
Amphetamine	300-62-9	1,000	1,000				
Naled	300-76-5			10	313		
Lead acetate	301-04-2			10	313c	U144	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Oxydemeton methyl	301-12-2				313		
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000
Lasiocarpine	303-34-4			10		U143	
Chlorambucil	305-03-3			10		U035	
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
HCFC-123	306-83-2				X		
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Aldrin	309-00-2	500/10,000	1	1	313^	P004	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
Bromacil	314-40-9				313		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Emetine, dihydrochloride	316-42-7	1/10,000	1				
alpha-BHC	319-84-6			10	X		
alpha-Hexachlorocyclohexane	319-84-6			10	313		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Trichloronate	327-98-0	500	500				
2,5-Dinitrophenol	329-71-5			10			
Diuron	330-54-1			100	313		
Linuron	330-55-2				313		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000				15,000
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000				15,000
Carbonic difluoride	353-50-4			1,000		U033	
Bromochlorodifluoromethane	353-59-3				313		
Halon 1211	353-59-3				X		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		
HCFC-121a	354-11-0				X		
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
HCFC-121	354-14-3				X		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
HCFC-123a	354-23-4				X		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
HCFC-124a	354-25-6				X		
Brucine	357-57-3			100	313	P018	
Fluoroacetyl chloride	359-06-8	10	10				
Ethylene fluorohydrin	371-62-0	10	10				
Ergotamine tartrate	379-79-3	500/10,000	500				
1,2-Dichloro-1,1,2,3-pentafluoropropane	422-44-6				313		
HCFC-225bb	422-44-6				X		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-225ba	422-48-0				X		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
HCFC-225ca	422-56-0				X		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
HCFC-225da	431-86-7				X		
Cyanogen	460-19-5			100		P031	10,000
Ethanenitrile	460-19-5			100		P031	10,000
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
HCFC-253fb	460-35-5				X		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbonyl sulfide	463-58-1			100	313		10,000
2,2-Dimethylpropane	463-82-1						10,000
Propane, 2,2-dimethyl-	463-82-1						10,000
Isodrin	465-73-6	100/10,000	1	1	313^	P060	
Chlorfenvinfos	470-90-6	500	500				
Auramine	492-80-8			100	X	U014	
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
Chlornaphazine	494-03-1			100		U026	
Diaminotoluene	496-72-0			10		U221	
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
1,3-Pentadiene	504-60-9			100		U186	10,000
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Mustard gas	505-60-2	500	500		313		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Silver cyanide	506-64-9			1	313c	P104	
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen chloride ((CN)Cl)	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		
Ammonium carbonate	506-87-6			5,000			
Acetyl bromide	506-96-7			5,000			
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
HCFC-225cb	507-55-1				X		
Methane, tetraniitro-	509-14-8	500	10	10		P112	10,000
Tetranitromethane	509-14-8	500	10	10		P112	10,000
Benzeneacetic acid, 4-chloro-.alpha.- (4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Chlorobenzilate	510-15-6			10	313	U038	
sec-Butylamine	513-49-5			1,000			
Dithiazanine iodide	514-73-8	500/10,000	500				
o-Dinitrobenzene	528-29-0			100	313		
2-Chloroacetophenone	532-27-4			100	313		
Dazomet	533-74-4				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
Crimidine	535-89-7	100/10,000	100				
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
1,2-Dichloroethylene	540-59-0				313		
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
2,2,4-Trimethylpentane	540-84-1			1,000			
tert-Butyl acetate	540-88-5			5,000			
Uranyl acetate	541-09-3			100			
Lewisite	541-25-3	10	10				
Ethyl chloroformate	541-41-3				313		
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
1,3-Dichlorobenzene	541-73-1			100	313	U071	
Barium cyanide	542-62-1			10	313c	P013	
1,3-Dichloropropene	542-75-6			100	X	U084	
1,3-Dichloropropylene	542-75-6			100	313	U084	
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Ethylthiocyanate	542-90-5	10,000	10,000				
Cadmium acetate	543-90-8			10	313c		
Cobaltous formate	544-18-3			1,000	313c		
Copper cyanide	544-92-3			10	313c	P029	
Lithium carbonate	554-13-2				313		
m-Nitrophenol	554-84-7			100			
Tris(2-chloroethyl)amine	555-77-1	100	100				
Isothiocyanatomethane	556-61-6	500	500		X		
Methyl isothiocyanate	556-61-6	500	500		313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000
Nickel cyanide	557-19-7			10	313c	P074	
Zinc cyanide	557-21-1			10	313c	P121	
Zinc acetate	557-34-6			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
1-Propene, 2-chloro-	557-98-2						10,000
2-Chloropropylene	557-98-2						10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Ethion	563-12-2	1,000	10	10			
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
3-Methyl-1-butene	563-45-1						10,000
2-Methyl-1-butene	563-46-2						10,000
3-Chloro-2-methyl-1-propene	563-47-3				313		
Thallium(I) acetate	563-68-8			100	313c	U214	
C.I. Basic Green 4	569-64-2				313		
2,6-Dinitrophenol	573-56-8			10			
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
2-Butene-cis	590-18-1						10,000
1-Chloropropylene	590-21-6						10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Calcium cyanide	592-01-8			10	313c	P021	
Mercuric cyanide	592-04-1			1	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Vinyl bromide	593-60-2			100	313		
Methanesulfenyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Tetraethyltin	597-64-8	100	100				
Bromoacetone	598-31-2			1,000		P017	
Bromotrifluoroethylene	598-73-2						10,000
Ethene, bromotrifluoro-	598-73-2						10,000
2,6-Dinitrotoluene	606-20-2			100	313	U106	
Hexachlorocyclohexane (all isomers)	608-73-1			***			
Pentachlorobenzene	608-93-5			10	313^	U183	
3,4,5-Trichlorophenol	609-19-8			10			
3,4-Dinitrotoluene	610-39-9			10			
3,3'-Dimethylbenzidine dihydrochloride	612-82-8				313		
o-Tolidine dihydrochloride	612-82-8				X		
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
2,4-Diaminoanisole	615-05-4				313		
1,2-Phenylenediamine dihydrochloride	615-28-1				313		
N-Nitroso-N-methylurethane	615-53-2			1		U178	
Di-n-propylnitrosamine	621-64-7			10	X	U111	
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
1,4-Phenylenediamine dihydrochloride	624-18-0				313		
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000
tert-Amyl acetate	625-16-1			5,000			
sec-Amyl acetate	626-38-0			5,000			
Chloroethyl chloroformate	627-11-2	1,000	1,000				
2-Pentene, (Z)-	627-20-3						10,000
Amyl acetate	628-63-7			5,000			
Mercury fulminate	628-86-4			10	313c	P065	
Selenourea	630-10-4			1,000		P103	
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	
Ouabain	630-60-4	100/10,000	100				
Ammonium acetate	631-61-8			5,000			
o-Tolidine hydrochloride	636-21-5			100	313	U222	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	
Dimetilan	644-64-4	500/10,000	1*	1*		P191	
2-Pentene, (E)-	646-04-8						10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cyanuric fluoride	675-14-9	100	100		313c		
Methyl phosphonic dichloride	676-97-1	100	100				
Hexamethylphosphoramide	680-31-9			1	313		
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
1-Buten-3-yne	689-97-4						10,000
Vinyl acetylene	689-97-4						10,000
Diethylarsine	692-42-2			1		P038	
Dichlorophenylarsine	696-28-6	500	1	1		P036	
Phenyl dichloroarsine	696-28-6	500	1	1		P036	
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		
Propanil	709-98-8				313		
Phosmet	732-11-6	10/10,000	10				
Hexaethyl tetraphosphate	757-58-4			100		P062	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
EPTC	759-94-4				X		
Ethyl dipropylthiocarbamate	759-94-4				313		
Methacrylic anhydride	760-93-0	500	500				
1,4-Dichloro-2-butene	764-41-0			1	313	U074	
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
Glycidylaldehyde	765-34-4			10		U126	
Carbophenothon	786-19-6	500	500				
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		
HCFC-123b	812-04-4				X		
Diethyl chlorophosphate	814-49-3	500	500				
2-Propenoyl chloride	814-68-6	100	100				5,000
Acrylyl chloride	814-68-6	100	100				5,000
Cupric tartrate	815-82-7			100	313c		
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Diaminotoluene	823-40-5			10		U221	
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
Ametryn	834-12-8				313		
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
C.I. Solvent Yellow 14	842-07-9				313		
N-Methyl-2-pyrrolidone	872-50-4				313		
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Demeton-S-methyl	919-86-8	500	500				
Methacryloyl chloride	920-46-7	100	100				
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Methylolacrylamide	924-42-5				313		
N-Nitrosopyrrolidine	930-55-2			1		U180	
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
Fonofos	944-22-9	500	500				
Phosfolan	947-02-4	100/10,000	100				
Mephosfolan	950-10-7	500	500				
Methidathion	950-37-8	500/10,000	500				
Diphenamid	957-51-7				313		
alpha - Endosulfan	959-98-8			1			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5				X		
Tetrachlorvinphos	961-11-5				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
C.I. Basic Red 1	989-38-8				313		
Norbornimide	991-42-4	100/10,000	100				
Triethoxysilane	998-30-1	500	500				
Chlormequat chloride	999-81-5	100/10,000	100				
Heptachlor epoxide	1024-57-3			1			
Endosulfan sulfate	1031-07-8			1			
Triamiphos	1031-47-6	500/10,000	500				
Chromic acetate	1066-30-4			1,000	313c		
Ammonium bicarbonate	1066-33-7			5,000			
Trimethyltin chloride	1066-45-1	500/10,000	500				
Lead stearate	1072-35-1			10	313c		
Ammonium carbamate	1111-78-0			5,000			
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
Pebulate	1114-71-2				313		
N-Nitrosodiethanolamine	1116-54-7			1		U173	
1,3-Propane sultone	1120-71-4			10	X	U193	
Propane sultone	1120-71-4			10	313	U193	
Nitrocyclohexane	1122-60-7	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
Metolcarb	1129-41-5	100/10,000	1*	1*		P190	
Cycloate	1134-23-2				313		
Decabromodiphenyl oxide	1163-19-5				313		
Ferric ammonium citrate	1185-57-5			1,000			
Dichlobenil	1194-65-6			100			
Xylenol	1300-71-6			1,000			
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic disulfide	1303-32-8			1	313c		
Arsenic trisulfide	1303-33-9			1	313c		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Antimony trioxide	1309-64-4			1,000	313c		
Potassium hydroxide	1310-58-3			1,000			
Sodium hydroxide	1310-73-2			1,000			
Molybdenum trioxide	1313-27-5				313		
Thorium dioxide	1314-20-1				313		
Thallic oxide	1314-32-5			100	313c	P113	
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Sulfur phosphide	1314-80-3			100		U189	
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Lead sulfide	1314-87-0			10	313c		
2,4,5-T amines	1319-72-8			5,000			
Cresol (mixed isomers)	1319-77-3			100	313	U052	
2,4-D Esters	1320-18-9			100	X		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
Nitrotoluene	1321-12-6			1,000			
Arsenic acid	1327-52-2			1	313c	P010	
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Zinc borate	1332-07-6			1,000	313c		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Asbestos ( friable)	1332-21-4			1	313		
Hydrogen	1333-74-0						10,000
Sodium bifluoride	1333-83-1			100			
Lead subacetate	1335-32-6			10	313c	U146	
Hexachloronaphthalene	1335-87-1				313		
Ammonium hydroxide	1336-21-6			1,000	313		
PCBs	1336-36-3			1	X		
Polychlorinated biphenyls	1336-36-3			1	313^		
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Naphthenic acid	1338-24-5			100			
Ammonium bifluoride	1341-49-7			100			
Aluminum oxide (fibrous forms)	1344-28-1				313		
Antimycin A	1397-94-0	1,000/10,000	1,000				
Dinoterb	1420-07-1	500/10,000	500				
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Carbofuran phenol	1563-38-8			1*		U367	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Trifluralin	1582-09-8			10	313^		
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Methyl tert-butyl ether	1634-04-4			1,000	313		
Aldicarb sulfone	1646-88-4			1*		P203	
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
HCFC-132b	1649-08-7				X		
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		
Bromoxynil	1689-84-5				313		
Bromoxynil octanoate	1689-99-2				313		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
HCFC-141b	1717-00-6				X		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!^		
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Ammonium thiocyanate	1762-95-4			5,000			
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Nitrofen	1836-75-5				313		
Benfluralin	1861-40-1				313		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		
Ammonium benzoate	1863-63-4			5,000			
Hexachloropropene	1888-71-7			1,000		U243	
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Chlorothalonil	1897-45-6				313		
Paraquat dichloride	1910-42-5	10/10,000	10		313		
6-Chloro-N-ethyl-N'-(1-methylethyl)-	1912-24-9				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,3,5-triazine-2,4-diamine							
Atrazine	1912-24-9				313		
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
Dicamba	1918-00-9			1,000	313		
Picloram	1918-02-1				313		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Propachlor	1918-16-7				313		
2,4-D Esters	1928-38-7			100			
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4,5-T esters	1928-47-8			1,000			
2,4-D Esters	1928-61-6			100			
2,4-D butoxyethyl ester	1929-73-3			100	313		
2,4-D Esters	1929-73-3			100	X		
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
Nitrapyrin	1929-82-4				313		
C.I. Direct Black 38	1937-37-7				313		
Chloroxuron	1982-47-4	500/10,000	500				
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Sodium dicamba	1982-69-0				313		
Tributyltin fluoride	1983-10-4				313		
Valinomycin	2001-95-8	1,000/10,000	1,000				
2,4,5-T amines	2008-46-0			5,000			
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Paraquat methosulfate	2074-50-2	10/10,000	10				
Phenylsilatrane	2097-19-0	100/10,000	100				
EPN	2104-64-5	100/10,000	100				
Tributyltin methacrylate	2155-70-6				313		
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Dipotassium endothall	2164-07-0				313		
Fluometuron	2164-17-2				313		
Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-	2164-17-2				X		
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Molinate	2212-67-1				313		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Octachloronaphthalene	2234-13-1				313		
Diglycidyl ether	2238-07-5	1,000	1,000				
Prothoate	2275-18-5	100/10,000	100				
Dimethylamine dicamba	2300-66-5				313		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Diallate	2303-16-4			100	313	U062	
Triallate	2303-17-5			1*	313	U389	
Propargite	2312-35-8			10	313		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
Chinomethionat	2439-01-2				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
Oxydisulfoton	2497-07-6	500	500				
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Formothion	2540-82-1	100	100				
2,4,5-T esters	2545-59-7			1,000			
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Pentadecylamine	2570-26-5	100/10,000	100				
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
C.I. Direct Blue 6	2602-46-2				313		
Promecarb	2631-37-0	500/10,000	1*	1*		P201	
Cyanophos	2636-26-2	1,000	1,000				
Azinphos-ethyl	2642-71-9	100/10,000	100				
2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Sulfuryl fluoride	2699-79-8				313		
Vikane	2699-79-8				X		
2,4-D sodium salt	2702-72-9				313		
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				
Thallous malonate	2757-18-8	100/10,000	100				
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Diquat	2764-72-9			1,000			
Endothion	2778-04-3	500/10,000	500				
C.I. Disperse Yellow 3	2832-40-8				313		
2-Chloro-1,1,2-tetrafluoroethane	2837-89-0				313		
HCFC-124	2837-89-0				X		
Chlorpyrifos	2921-88-2			1			
Ferric ammonium oxalate	2944-67-4			1,000			
2,4-D chlorocrotyl ester	2971-38-2			100	313		
2,4-D Esters	2971-38-2			100	X		
Ammonium citrate, dibasic	3012-65-5			5,000			
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
C.I. Solvent Orange 7	3118-97-6				313		
Ammonium tartrate	3164-29-2			5,000			
4-Chloro-o-toluidine, hydrochloride	3165-93-3			100		U049	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
Cupric nitrate	3251-23-8			100	313c		
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!^		
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
Temephos	3383-96-8				313		
Zinc carbonate	3486-35-9			1,000	313c		
DDE	3547-04-4			5,000			
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
Methoxone sodium salt	3653-48-3				313		
Sulfotep	3689-24-5	500	100	100		P109	
Tetraethylidithiopyrophosphate	3689-24-5	500	100	100		P109	
Chlorophacinone	3691-35-8	100/10,000	100				
5-Methylchrysene	3697-24-3				313+^		
Amiton oxalate	3734-97-2	100/10,000	100				
Methyl phenkapton	3735-23-7	500	500				
C.I. Food Red 5	3761-53-3				313		
2,4,5-T amines	3813-14-7			5,000			
Fuberidazole	3878-19-1	100/10,000	100				
Bitoscanate	4044-65-9	500/10,000	500				
1-(3-Chloroallyl)-3,5,7-traza-1-azoniaadamantane chloride	4080-31-3				313		
Isophorone diisocyanate	4098-71-9	100	100		313#		
Phosacetim	4104-14-7	100/10,000	100				
Dichlorosilane	4109-96-0						10,000
Silane, dichloro-	4109-96-0						10,000
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Fluenetil	4301-50-2	100/10,000	100				
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
C.I. Acid Green 3	4680-78-8				313		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4				X		
Carboxin	5234-68-4				313		
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Dibenzo(a,e)fluoranthene	5385-75-1				313+^		
1-Nitropyrene	5522-43-0				313+^		
Chlorpyrifos methyl	5598-13-0				313		
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Coumatetralyl	5836-29-3	500/10,000	500				
Cupric oxalate	5893-66-3			100	313c		
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Terbacil	5902-51-2				313		
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			1*		U395	
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
C.I. Acid Red 114	6459-94-5				313		
Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Monocrotophos	6923-22-4	10/10,000	10				
4-Chlorophenyl phenyl ether	7005-72-3			5,000			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
Prometryn	7287-19-6				313		
Endrin aldehyde	7421-93-4			1			
Lead stearate	7428-48-0			10	313c		
Aluminum (fume or dust)	7429-90-5				313		
Lead	7439-92-1			10	313^		
Manganese	7439-96-5				313		
Mercury	7439-97-6			1	313^	U151	
Nickel	7440-02-0			100	313		
Silver	7440-22-4			1,000	313		
Sodium	7440-23-5			10			
Thallium	7440-28-0			1,000	313		
Antimony	7440-36-0			5,000	313		
Arsenic	7440-38-2			1	313		
Barium	7440-39-3				313		
Beryllium	7440-41-7			10	313	P015	
Cadmium	7440-43-9			10	313		
Chromium	7440-47-3			5,000	313		
Cobalt	7440-48-4				313		
Copper	7440-50-8			5,000	313		
Vandium (except when contained in an alloy)	7440-62-2				313		
Zinc	7440-66-6			1,000			
Zinc (fume or dust)	7440-66-6			1,000	313		
Selenium dioxide	7446-08-4			10	313c		
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500			5,000	
Sulfur trioxide	7446-11-9	100	100			10,000	
Lead sulfate	7446-14-2			10	313c		
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Lead phosphate	7446-27-7			10	313c	U145	
Cupric chloride	7447-39-4			10	313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Selenium sulfide	7488-56-4			10	313c	U205	
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000	X		2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
Sodium phosphate, dibasic	7558-79-4			5,000			
Lithium hydride	7580-67-8	100	100				
Sodium phosphate, tribasic	7601-54-9			5,000			
Sodium arsenate	7631-89-2	1,000/10,000	1	1	313c		
Sodium bisulfite	7631-90-5			5,000			
Sodium nitrite	7632-00-0			100	313		
Borane, trifluoro-	7637-07-2	500	500		X		5,000
Boron trifluoride	7637-07-2	500	500		313		5,000
Lead arsenate	7645-25-2			1	313c		
Zinc chloride	7646-85-7			1,000	313c		
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Antimony pentachloride	7647-18-9			1,000			
Phosphoric acid	7664-38-2			5,000			
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Ammonia	7664-41-7	500	100	100	313		
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			1000	X		20,000
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sodium fluoride	7681-49-4			1,000			
Sodium hypochlorite	7681-52-9			100			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		
Tetramethrin	7696-12-0				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Zinc bromide	7699-45-8			1,000	313c		
Ferric chloride	7705-08-0			1,000			
Nickel chloride	7718-54-9			100	313c		
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus trichloride	7719-12-2	1,000	1,000	1,000			15,000
Ferrous sulfate	7720-78-7			1,000			
Potassium permanganate	7722-64-7			100	313c		
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Phosphorus	7723-14-0	100	1	1			
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		
Bromine	7726-95-6	500	500		313		10,000
Zinc sulfate	7733-02-0			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Potassium bromate	7758-01-2				313		
Sodium phosphate, tribasic	7758-29-4			5,000			
Ferrous chloride	7758-94-3			100			
Lead chloride	7758-95-4			10	313c		
Cupric sulfate	7758-98-7			10	313c		
Silver nitrate	7761-88-8			1	313c		
Ammonium sulfamate	7773-06-0			5,000			
Sodium chromate	7775-11-3			10	313c		
Arsenic acid	7778-39-4			1	313c	P010	
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		
Calcium hypochlorite	7778-54-3			10			
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Selenium	7782-49-2			100	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Ferrous sulfate	7782-63-0			1,000			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sodium selenite	7782-82-3			100	313c		
Mercurous nitrate	7782-86-7			10	313c		
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Hydrogen sulfide	7783-06-4	500	100	100	313s	U135	10,000
Hydrogen selenide	7783-07-5	10	10		313c		500
Mercuric sulfate	7783-35-9			10	313c		
Lead fluoride	7783-46-2			10	313c		
Zinc fluoride	7783-49-5			1,000	313c		
Ferric fluoride	7783-50-8			100			
Antimony trifluoride	7783-56-4			1,000	313c		
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Antimony pentafluoride	7783-70-2	500	500		313c		
Tellurium hexafluoride	7783-80-4	100	100				
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Lead arsenate	7784-40-9			1	313c		
Potassium arsenate	7784-41-0			1	313c		
Arsine	7784-42-1	100	100				1,000
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Sodium phosphate, tribasic	7785-84-4			5,000			
Mevinphos	7786-34-7	500	10	10	313		
Nickel sulfate	7786-81-4			100	313c		
Beryllium chloride	7787-47-5			1	313c		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Ammonium chromate	7788-98-9			10	313c		
Potassium chromate	7789-00-6			10	313c		
Strontium chromate	7789-06-2			10	313c		
Ammonium bichromate	7789-09-5			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Chlorosulfonic acid	7790-94-5			1,000			
Thallium chloride TlCl	7791-12-0	100/10,000	100	100	313c	U216	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Chlorine monoxide	7791-21-1						10,000
Chlorine oxide	7791-21-1						10,000
Selenium oxychloride	7791-23-3	500	500		313c		
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Silane	7803-62-5						10,000
Camphechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Toxaphene	8001-35-2	500/10,000	1	1	313^	P123	
Creosote	8001-58-9			1	313	U051	
Dichloropropane - Dichloropropene (mixture)	8003-19-8			100			
Pyrethrins	8003-34-7			1			
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Demeton	8065-48-3	500	500				

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Metiram	9006-42-2				313		
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Sodium hypochlorite	10022-70-5			100			
Chromic chloride	10025-73-7	1/10,000	1		313c		
Silane, trichloro-	10025-78-2						10,000
Trichlorosilane	10025-78-2						10,000
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Antimony trichloride	10025-91-9			1,000	313c		
Zirconium tetrachloride	10026-11-6			5,000			
Phosphorus pentachloride	10026-13-8	500	500				
Ozone	10028-15-6	100	100		313		
Ferric sulfate	10028-22-5			1,000			
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Hydrazine sulfate	10034-93-2				313		
Sodium phosphate, dibasic	10039-32-4			5,000			
Aluminum sulfate	10043-01-3			5,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Mercuric nitrate	10045-94-0			10	313c		
Chlorine dioxide	10049-04-4				313		1,000
Chlorine oxide (ClO <sub>2</sub> )	10049-04-4				X		1,000
Chromous chloride	10049-05-5			1,000	313c		
trans-1,3-Dichloropropene	10061-02-6				313		
Lead nitrate	10099-74-8			10	313c		
Chromic sulfate	10101-53-8			1,000	313c		
Lead iodide	10101-63-0			10	313c		
Sodium phosphate, tribasic	10101-89-0			5,000			
Uranyl nitrate	10102-06-4			100			
Sodium selenite	10102-18-8	100/10,000	100	100	313c		
Sodium tellurite	10102-20-2	500/10,000	500				
Nitric oxide	10102-43-9	100	10	10		P076	10,000
Nitrogen oxide (NO)	10102-43-9	100	10	10		P076	10,000
Nitrogen dioxide	10102-44-0	100	10	10		P078	
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Lead arsenate	10102-48-4			1	313c		
Cadmium chloride	10108-64-2			10	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Sodium phosphate, tribasic	10124-56-8			5,000			
Sodium phosphate, dibasic	10140-65-5			5,000			
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ammonium bisulfite	10192-30-0			5,000			
Ammonium sulfite	10196-04-0			5,000			
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Methamidophos	10265-92-6	100/10,000	100				
Borane, trichloro-	10294-34-5	500	500		X		5,000
Boron trichloride	10294-34-5	500	500		313		5,000
Dialifor	10311-84-9	100/10,000	100				
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
Sodium phosphate, tribasic	10361-89-4			5,000			
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Mercurous nitrate	10415-75-5			10	313c		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ferric nitrate	10421-48-4			1,000			
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	10453-86-8				X		
Resmethrin	10453-86-8				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Nitrogen dioxide	10544-72-6			10			
Sodium bichromate	10588-01-9			10	313c		
Carbendazim	10605-21-7			1*		U372	
Aroclor 1260	11096-82-5			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1221	11104-28-2			1			
Chromic acid	11115-74-5			10	313c		
Aroclor 1232	11141-16-5			1			
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		
Paris green	12002-03-8	500/10,000	1	1			
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Nickel hydroxide	12054-48-7			10	313c		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	100	100		313c		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Zineb	12122-67-7				313		
Ammonium fluoride	12125-01-8			100			
Ammonium chloride	12125-02-9			5,000			
Ammonium sulfide	12135-76-1			100			
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		
Maneb	12427-38-2				313		
Aroclor 1248	12672-29-6			1			
Aroclor 1016	12674-11-2			1			
Sulfur monochloride	12771-08-3			1,000			
Terbufos	13071-79-9	100	100				
Phosphamidon	13171-21-6	100	100				
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000		X		
Fenbutatin oxide	13356-08-6				313		
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Sodium selenate	13410-01-0	100/10,000	100		313c		
Gallium trichloride	13450-90-3	500/10,000	500				
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
HCFC-225cc	13474-88-9				X		
2,4,5-T salts	13560-99-1			1,000			
Beryllium nitrate	13597-99-4			1	313c		
Desmedipham	13684-56-5				313		
Zirconium nitrate	13746-89-9			5,000			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Calcium chromate	13765-19-0			10	313c	U032	
Lead fluoborate	13814-96-5			10	313c		
Ammonium fluoborate	13826-83-0			5,000			
sec-Butylamine	13952-84-6			1,000			
Cobaltous sulfamate	14017-41-5			1,000	313c		
Salcomine	14167-18-1	500/10,000	500				
Nickel nitrate	14216-75-2			100	313c		
Ammonium oxalate	14258-49-2			5,000			
Lithium chromate	14307-35-8			10	313c		
Ammonium tartrate	14307-43-8			5,000			
Ferbam	14484-64-1				313		
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		
Zirconium sulfate	14644-61-2			5,000			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Manganese, bis(dimethylcarbamodithioato-S,S')	15339-36-3			1*	313c	P196	
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
Nickel ammonium sulfate	15699-18-0			100	313c		
Lead sulfate	15739-80-7			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
Alachlor	15972-60-8				313		
C.I. Direct Brown 95	16071-86-6				313		
N-Nitrosonornicotine	16543-55-8				313		
Sodium hydrosulfide	16721-80-5			5,000			
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Zinc silicofluoride	16871-71-9			5,000	313c		
Ammonium silicofluoride	16919-19-0			1,000			
Zirconium potassium fluoride	16923-95-8			1,000			
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
Decaborane(14)	17702-41-9	500/10,000	500				
Formparanate	17702-57-7	100/10,000	1*	1*		P197	
Benomyl	17804-35-2			1*	313	U271	
Streptozotocin	18883-66-4			1		U206	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Oryzalin	19044-88-3				313		
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!^		
Pentaborane	19624-22-7	500	500				
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one	19666-30-9				X		
Oxydiazon	19666-30-9				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		
o-Dianisidine dihydrochloride	20325-40-0				X		
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
Methazole	20354-26-1				313		
Osmium oxide OsO <sub>4</sub> (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Digoxin	20830-75-5	10/10,000	10				
Daunomycin	20830-81-3			10		U059	
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Metribuzin	21087-64-9				313		
Fosthietan	21548-32-3	500	500				
Leptophos	21609-90-5	500/10,000	500				
Cyanazine	21725-46-2				313		
Mercuric oxide	21908-53-2	500/10,000	500			313c	
Chlorthiophos	21923-23-9	500	500				
Fenamiphos	22224-92-6	10/10,000	10				
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			1*	X	U278	
Bendiocarb	22781-23-3			1*	313	U278	
Bendiocarb phenol	22961-82-6			1*		U364	
Oxamyl	23135-22-0	100/10,000	1*	1*		P194	
Formetanate hydrochloride	23422-53-9	500/10,000	1*	1*		P198	
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Thiophanate-methyl	23564-05-8			1*	313	U409	
(1,2-Phenylenebis(iminocarbonothioyl)) bis carbamic acid diethyl ester	23564-06-9				X		
Thiophanate ethyl	23564-06-9				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)	23950-58-5			5,000	X	U192	
Pronamide	23950-58-5			5,000	313	U192	
Triazofos	24017-47-8	500	500				
Chlormephos	24934-91-6	500	500				
Dinitrobenzene (mixed isomers)	25154-54-5			100			
Nitrophenol (mixed isomers)	25154-55-6			100			
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Butene	25167-67-3						10,000
Trichlorophenol	25167-82-2			10	313c		
2,4,5-T esters	25168-15-4			1,000			
2,4-D Esters	25168-26-7			100			
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Isofenphos	25311-71-1				313		
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
Dichlorobenzene	25321-22-6			100	X		
Dichlorobenzene (mixed isomers)	25321-22-6			100	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
Toluenediamine	25376-45-8			10	X	U221	
Dinitrophenol	25550-58-7			10			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Phenothrin	26002-80-2				313		
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	1*	1*		P185	
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100	X	U223	10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Dichloropropane	26638-19-7			1,000			
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Triforine	26644-46-2				313		
Dichloropropene	26952-23-8			100			
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Norflurazon	27314-13-2				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Vanadyl sulfate	27774-13-6			1,000	313c		
d-trans-Allethrin	28057-48-9				313		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Thiobencarb	28249-77-6				313		
Antimony potassium tartrate	28300-74-5			100	313c		
Xylylene dichloride	28347-13-9	100/10,000	100				
C.I. Direct Blue 218	28407-37-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Octachlorostyrene	29082-74-4				313^		
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7				X		
Pirimiphos methyl	29232-93-7				313		
Paraformaldehyde	30525-89-4			1,000			
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			1*		U394	
Acephate	30560-19-1				313		
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
3-((Ethylamino)methoxyphosphinothiolyloxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Propetamphos	31218-83-4				313		
2,4,5-TP esters	32534-95-5			100			
Amitraz	33089-61-1				313		
beta - Endosulfan	33213-65-9			1			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Tebuthiuron	34014-18-1				313		
Dichlorotrifluoroethane	34077-87-7				313		
Diflubenzuron	35367-38-5				313		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Sulprofos	35400-43-2				313		
1-(2-(2,4-Dichlorophenyl)-2-(2-propenoxy)ethyl)-1H-imidazole	35554-44-0				X		
Imazalil	35554-44-0				313		
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!^		
Uranyl nitrate	36478-76-9			100			
Nickel chloride	37211-05-5			100	313c		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
Diethyltethyl	38727-55-8				313		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!^		
2,4-Diaminoanisole sulfate	39156-41-7				313		
Thiofanox	39196-18-4	100/10,000	100	100		P045	
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!^		
Dinocap	39300-45-3				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
Fenpropathrin	39515-41-8				313		
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4				313!^		
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
Pendimethalin	40487-42-1				313^		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate	41198-08-7				X		
Profenofos	41198-08-7				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
o-Tolidine dihydrofluoride	41766-75-0				X		
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Oxyfluorfen	42874-03-3				313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
Triadimefon	43121-43-3				313		
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
Vinclozolin	50471-44-8				313		
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!^		
Hexazinone	51235-04-2				313		
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diclofop methyl	51338-27-3				313		
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
Fenvalerate	51630-58-1				313		
Zinc ammonium chloride	52628-25-8			1,000	313c		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester	52645-53-1				X		
Permethrin	52645-53-1				313		
Lead stearate	52652-59-2			10	313c		
Calcium arsenite	52740-16-6			1	313c		
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			1*		U387	
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
Bromacil, lithium salt	53404-19-6				313		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dazomet, sodium salt	53404-60-7				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
2,4-D Esters	53467-11-1			100			
Aroclor 1242	53469-21-9			1			
Pyriminil	53558-25-1	100/10,000	100				
Carbosulfan	55285-14-8			1*		P189	
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7				X		
Dimethipin	55290-64-7				313		
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Ferric ammonium oxalate	55488-87-4			1,000			
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!^		
Lead stearate	56189-09-4			10	313c		
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!^		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!^		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!^		
Triclopyr triethylammonium salt	57213-69-1				313		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!^		
Zinc, dichloro(4,4-dimethyl-5(((methylamino)carbonyl)oxy)imino)pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Thiodicarb	59669-26-0			1*	313	U410	
.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
Fenarimol	60168-88-9				313		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4-triazole	60207-90-1				X		
Propiconazole	60207-90-1				313		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!^		
2,4,5-T esters	61792-07-2			1,000			
Cobalt, ((2,2'-(1,2-ethanediylibis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)N,N',O,O')	62207-76-5	100/10,000	100		313c		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Acifluorfen, sodium salt	62476-59-9				313		
Chlorotetrafluoroethane	63938-10-3				313		
2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino)carbonyl)benzenesulfonamide	64902-72-3				X		
Chlorsulfuron	64902-72-3				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
2-(4-((6-Chloro-2-benzoxazolyl)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
Fenoxaprop ethyl	66441-23-4				313		
Hydramethylnon	67485-29-4				313		
Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone	67485-29-4				X		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!^		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester	68085-85-8				X		
Cyhalothrin	68085-85-8				313		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
Cyfluthrin	68359-37-5				313		
Fluvalinate	69409-94-5				313		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+-)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)phenoxy)propanoic acid, butyl ester	69806-50-4				X		
Fluazifop butyl	69806-50-4				313		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!^		
Abamectin	71751-41-2				313		
Avermectin B1	71751-41-2				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
Fomesafen	72178-02-0				313		
(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	72490-01-8				X		
Fenoxy carb	72490-01-8				313		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!^		
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
Sethoxydim	74051-80-2				313		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
2-(4-((6-Chloro-2-quinoxalinyloxy)phenoxy) propanoic acid ethyl ester	76578-14-8				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Quizalofop-ethyl	76578-14-8				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
Lactofen	77501-63-4				313		
Bifenthrin	82657-04-3				313		
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		
Myclobutanil	88671-89-0				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
Chlorimuron ethyl	90982-32-4				313		
Ethyl-2-(((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl)benzoic acid, methyl ester	101200-48-0				X		
Tribenuron methyl	101200-48-0				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
HCFC-225eb	111512-56-2				X		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
o-Dianisidine hydrochloride	111984-09-9				X		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
HCFC-225aa	128903-21-9				X		
Diethyldiisocyanatobenzene	134190-37-7				313#		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
HCFC-225ea	136013-79-1				X		
Antimony Compounds	N010			***	313		
Arsenic Compounds	N020			***	313		
Barium Compounds	N040				313		
--Except Barium Sulfate (under 313)	0						
Beryllium Compounds	N050			***	313		
Cadmium Compounds	N078			***	313		
Chlorinated Phenols	N084			***	313		
Chlorophenols	N084			***	313		
Chromium Compounds	N090			***	313		
Cobalt Compounds	N096			***	313		
Copper Compounds	N100			***	313		
--Except C.I. Pigment Blue 15 (under 313)	0						
--Except C.I. Pigment Green 36 (under 313)	0						
--Except C.I. Pigment Green 7 (under 313)	0						
--Except copper phthalocyanine compounds (under 313)	0						

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cyanide Compounds	N106			***	313		
Diisocyanates (includes only 20 chemicals)	N120				313		
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313^		
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		
Glycol Ethers	N230			***	313		
Lead Compounds	N420			***	313^		
Manganese Compounds	N450			***	313		
Mercury Compounds	N458			***	313^		
Nickel Compounds	N495			***	313		
Nicotine and salts	N503				313		
Nitrate compounds (water dissociable)	N511				313		
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polycyclic aromatic compounds (includes only 19 chemicals)	N590				313^		
Selenium Compounds	N725			***	313		
Silver Compounds	N740			***	313		
Strychnine and salts	N746				313		
Thallium Compounds	N760			***	313		
Vandium Compounds	N770				313		
Warfarin and salts	N874				313		
Zinc Compounds	N982			***	313		

**LIST OF LISTS**  
**CONSOLIDATED LIST OF CHEMICALS (BY NAME) SUBJECT TO THE EMERGENCY PLANNING AND  
 COMMUNITY RIGHT-TO-KNOW ACT (EPCRA) AND SECTION 112(r) OF THE CLEAN AIR ACT**

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Abamectin	71751-41-2				313		
Acenaphthene	83-32-9			100			
Acenaphthylene	208-96-8			5,000			
Acephate	30560-19-1				313		
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
Acetamide	60-35-5			100	313		
Acetic acid	64-19-7			5,000			
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Acetic anhydride	108-24-7			5,000			
Acetone	67-64-1			5,000		U002	
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Acetonitrile	75-05-8			5,000	313	U003	
Acetophenone	98-86-2			5,000	313	U004	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Acetyl bromide	506-96-7			5,000			
Acetyl chloride	75-36-5			5,000		U006	
Acetylene	74-86-2						10,000
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Acifluorfen, sodium salt	62476-59-9				313		
Acrolein	107-02-8	500	1	1	313	P003	5,000
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Acrylic acid	79-10-7			5,000	313	U008	
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
Acrylyl chloride	814-68-6	100	100				5,000
Adipic acid	124-04-9			5,000			
Adiponitrile	111-69-3	1,000	1,000				
Alachlor	15972-60-8				313		
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Aldicarb sulfone	1646-88-4			1*		P203	
Aldrin	309-00-2	500/10,000	1	1	313	P004	
d-trans-Allethrin	28057-48-9				313		
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
Allylamine	107-11-9	500	500		313		10,000
Allyl chloride	107-05-1			1,000	313		
Aluminum (fume or dust)	7429-90-5				313		
Aluminum oxide (fibrous forms)	1344-28-1				313		
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Aluminum sulfate	10043-01-3			5,000			
Ametryn	834-12-8				313		
2-Aminoanthraquinone	117-79-3				313		
4-Aminoazobenzene	60-09-3				313		
4-Aminobiphenyl	92-67-1			1	313		
1-Amino-2-	82-28-0				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
methylanthraquinone							
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Aminopterin	54-62-6	500/10,000	500				
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Amiton	78-53-5	500	500				
Amiton oxalate	3734-97-2	100/10,000	100				
Amitraz	33089-61-1				313		
Amitrole	61-82-5			10	313	U011	
Ammonia	7664-41-7	500	100	100	313		
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			1000	X		20,000
Ammonium acetate	631-61-8			5,000			
Ammonium benzoate	1863-63-4			5,000			
Ammonium bicarbonate	1066-33-7			5,000			
Ammonium bichromate	7789-09-5			10	313c		
Ammonium bifluoride	1341-49-7			100			
Ammonium bisulfite	10192-30-0			5,000			
Ammonium carbamate	1111-78-0			5,000			
Ammonium carbonate	506-87-6			5,000			
Ammonium chloride	12125-02-9			5,000			
Ammonium chromate	7788-98-9			10	313c		
Ammonium citrate, dibasic	3012-65-5			5,000			
Ammonium fluoborate	13826-83-0			5,000			
Ammonium fluoride	12125-01-8			100			
Ammonium hydroxide	1336-21-6			1,000	313		
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			
Ammonium oxalate	14258-49-2			5,000			
Ammonium picrate	131-74-8			10		P009	
Ammonium silicofluoride	16919-19-0			1,000			
Ammonium sulfamate	7773-06-0			5,000			
Ammonium sulfide	12135-76-1			100			
Ammonium sulfite	10196-04-0			5,000			
Ammonium tartrate	3164-29-2			5,000			
Ammonium tartrate	14307-43-8			5,000			
Ammonium thiocyanate	1762-95-4			5,000			
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Amphetamine	300-62-9	1,000	1,000				
Amyl acetate	628-63-7			5,000			
iso-Amyl acetate	123-92-2			5,000			
sec-Amyl acetate	626-38-0			5,000			
tert-Amyl acetate	625-16-1			5,000			
Anilazine	101-05-3				313		
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
o-Anisidine	90-04-0			100	313		
p-Anisidine	104-94-9				313		
o-Anisidine hydrochloride	134-29-2				313		
Anthracene	120-12-7			5,000	313		
Antimony	7440-36-0			5,000	313		
Antimony Compounds	N010			***	313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Antimony pentachloride	7647-18-9			1,000			
Antimony pentafluoride	7783-70-2	500	500		313c		
Antimony potassium tartrate	28300-74-5			100	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Antimony trichloride	10025-91-9			1,000	313c		
Antimony trifluoride	7783-56-4			1,000	313c		
Antimony trioxide	1309-64-4			1,000	313c		
Antimycin A	1397-94-0	1,000/10,000	1,000				
ANTU	86-88-4	500/10,000	100	100		P072	
Aroclor 1016	12674-11-2			1			
Aroclor 1221	11104-28-2			1			
Aroclor 1232	11141-16-5			1			
Aroclor 1242	53469-21-9			1			
Aroclor 1248	12672-29-6			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1260	11096-82-5			1			
Arsenic	7440-38-2			1	313		
Arsenic acid	1327-52-2			1	313c	P010	
Arsenic acid	7778-39-4			1	313c	P010	
Arsenic Compounds	N020			***	313		
Arsenic disulfide	1303-32-8			1	313c		
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenic trisulfide	1303-33-9			1	313c		
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Arsine	7784-42-1	100	100				1,000
Asbestos (friable)	1332-21-4			1	313		
Atrazine	1912-24-9				313		
Auramine	492-80-8			100	X	U014	
Avermectin B1	71751-41-2				X		
Azaserine	115-02-6			1		U015	
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Azinphos-ethyl	2642-71-9	100/10,000	100				
Azinphos-methyl	86-50-0	10/10,000	1	1			
Aziridine	151-56-4	500	1	1	X	P054	10,000
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Barban	101-27-9			1*		U280	
Barium	7440-39-3				313		
Barium Compounds	N040				313		
--Except Barium Sulfate (under 313)	0						
Barium cyanide	542-62-1			10	313c	P013	
Bendiocarb	22781-23-3			1*	313	U278	
Bendiocarb phenol	22961-82-6			1*		U364	
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Benfluralin	1861-40-1				313		
Benomyl	17804-35-2			1*	313	U271	
Benz[c]acridine	225-51-4			100		U016	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzamide	55-21-0				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)	23950-58-5			5,000	X	U192	
Benz[a]anthracene	56-55-3			10	313+^	U018	
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Benzene	71-43-2			10	313	U019	
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Benzenesulfonyl chloride	98-09-9			100		U020	
Benzenethiol	108-98-5	500	100	100		P014	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Benzidine	92-87-5			1	313	U021	
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				
Benzo[b]fluoranthene	205-99-2			1	313+^		
Benzo(j)fluoranthene	205-82-3				313+^		
Benzo(k)fluoranthene	207-08-9			5,000	313+^		
Benzoic acid	65-85-0			5,000			
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzonitrile	100-47-0			5,000			
Benzo(rst)pentaphene	189-55-9			10	313+^	U064	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzo[g,h,i]perylene	191-24-2			5,000	313^		
Benzo(a)phenanthrene	218-01-9			100	313+^	U050	
Benzo[a]pyrene	50-32-8			1	313+^	U022	
p-Benzoquinone	106-51-4			10	X	U197	
Benzotrichloride	98-07-7	100	10	10	X	U023	
Benzoyl chloride	98-88-4			1,000	313		
Benzoyl peroxide	94-36-0				313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzyl cyanide	140-29-4	500	500				
Beryllium	7440-41-7			10	313	P015	
Beryllium chloride	7787-47-5			1	313c		
Beryllium Compounds	N050			***	313		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Beryllium nitrate	13597-99-4			1	313c		
alpha-BHC	319-84-6			10	X		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyloxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Bifenthrin	82657-04-3				313		
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Biphenyl	92-52-4			100	313		
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
Bis(tributyltin) oxide	56-35-9				313		
Bitoscanate	4044-65-9	500/10,000	500				
Borane, trichloro-	10294-34-5	500	500		X	5,000	
Borane, trifluoro-	7637-07-2	500	500		X	5,000	
Boron trichloride	10294-34-5	500	500		313	5,000	
Boron trifluoride	7637-07-2	500	500		313	5,000	
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000			15,000	
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000			15,000	
Bromacil	314-40-9				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Bromacil, lithium salt	53404-19-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Bromine	7726-95-6	500	500		313		10,000
Bromoacetone	598-31-2			1,000		P017	
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
Bromochlorodifluoromethane	353-59-3				313		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate	41198-08-7				X		
Bromoform	75-25-2			100	313	U225	
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
4-Bromophenyl phenyl ether	101-55-3			100		U030	
Bromotrifluoroethylene	598-73-2						10,000
Bromotrifluoromethane	75-63-8				313		
Bromoxynil	1689-84-5				313		
Bromoxynil octanoate	1689-99-2				313		
Brucine	357-57-3			100	313	P018	
1,3-Butadiene	106-99-0			10	313		10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Butane	106-97-8						10,000
Butane, 2-methyl-	78-78-4						10,000
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Butene	25167-67-3						10,000
1-Butene	106-98-9						10,000
2-Butene	107-01-7						10,000
2-Butene-cis	590-18-1						10,000
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
1-Buten-3-yne	689-97-4						10,000
2,4-D butoxyethyl ester	1929-73-3			100	313		
Butyl acetate	123-86-4			5,000			
iso-Butyl acetate	110-19-0			5,000			
sec-Butyl acetate	105-46-4			5,000			
tert-Butyl acetate	540-88-5			5,000			
Butyl acrylate	141-32-2				313		
n-Butyl alcohol	71-36-3			5,000	313	U031	
sec-Butyl alcohol	78-92-2				313		
tert-Butyl alcohol	75-65-0				313		
Butylamine	109-73-9			1,000			
iso-Butylamine	78-81-9			1,000			
sec-Butylamine	513-49-5			1,000			
sec-Butylamine	13952-84-6			1,000			
tert-Butylamine	75-64-9			1,000			
Butyl benzyl phthalate	85-68-7			100			
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,2-Butylene oxide	106-88-7			100	313		
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		
n-Butyl phthalate	84-74-2			10	X	U069	
1-Butyne	107-00-6						10,000
Butyraldehyde	123-72-8				313		
Butyric acid	107-92-6			5,000			
iso-Butyric acid	79-31-2			5,000			
Cacodylic acid	75-60-5			1		U136	
Cadmium	7440-43-9			10	313		
Cadmium acetate	543-90-8			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cadmium chloride	10108-64-2			10	313c		
Cadmium Compounds	N078			***	313		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Calcium arsenite	52740-16-6			1	313c		
Calcium carbide	75-20-7			10			
Calcium chromate	13765-19-0			10	313c	U032	
Calcium cyanamide	156-62-7			1,000	313		
Calcium cyanide	592-01-8			10	313c	P021	
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Calcium hypochlorite	7778-54-3			10			
Campechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Cantharidin	56-25-7	100/10,000	100				
Captan	133-06-2			10	313		
Carbachol chloride	51-83-2	500/10,000	500				
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	1*	1*		P185	
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			1*		U387	
Carbaryl	63-25-2			100	313	U279	
Carbendazim	10605-21-7			1*		U372	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Carbofuran phenol	1563-38-8			1*		U367	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Carbonic difluoride	353-50-4			1,000		U033	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Carbonochloridic acid, propylester	109-61-5	500	500				15,000
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbon tetrachloride	56-23-5			10	313	U211	
Carbonyl sulfide	463-58-1			100	313		10,000
Carbophenothion	786-19-6	500	500				
Carbosulfan	55285-14-8			1*		P189	
Carboxin	5234-68-4				313		
Catechol	120-80-9			100	313		
CFC-11	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
CFC-114	76-14-2				X		
CFC-115	76-15-3				X		
CFC-13	75-72-9				X		
Chinomethionat	2439-01-2				313		
Chloramben	133-90-4			100	313		
Chlorambucil	305-03-3			10		U035	
Chlordane	57-74-9	1,000	1	1	313^	U036	
Chlordane (Technical Mixture and Metabolites)	0			***			
Chlorendic acid	115-28-6				313		
Chlorfenvinfos	470-90-6	500	500				
Chlorimuron ethyl	90982-32-4				313		
Chlorinated Benzenes	0			***			
Chlorinated Ethanes	0			***			
Chlorinated Naphthalene	0			***			
Chlorinated Phenols	N084			***	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Chlorine dioxide	10049-04-4				313		1,000
Chlorine monoxide	7791-21-1						10,000
Chlorine oxide	7791-21-1						10,000
Chlorine oxide (ClO <sub>2</sub> )	10049-04-4				X		1,000
Chlormephos	24934-91-6	500	500				
Chloromequat chloride	999-81-5	100/10,000	100				
Chlornaphazine	494-03-1			100		U026	
Chloroacetaldehyde	107-20-0			1,000		P023	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
2-Chloroacetophenone	532-27-4			100	313		
Chloroalkyl Ethers	0			***			
1-(3-Chlorallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3				313		
p-Chloroaniline	106-47-8			1,000	313	P024	
Chlorobenzene	108-90-7			100	313	U037	
Chlorobenzilate	510-15-6			10	313	U038	
2-(4-((6-Chloro-2-benzoxazolyl)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
2-Chloro-N-(2-chloroethyl)-N-	51-75-2	10	10		X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
methylethanamine							
p-Chloro-m-cresol	59-50-7			5,000		U039	
2,4-D chlorocrotyl ester	2971-38-2			100	313		
Chlorodibromomethane	124-48-1			100			
1-Chloro-1,1-difluoroethane	75-68-3				313		
Chlorodifluoromethane	75-45-6				313		
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Chloroethane	75-00-3			100	313		10,000
Chloroethanol	107-07-3	500	500				
Chloroethyl chloroformate	627-11-2	1,000	1,000				
6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	1912-24-9				X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Chloromethane	74-87-3			100	313	U045	10,000
2-Chloro-N-((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino)carbonyl)benzenesulfonamide	64902-72-3				X		
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
3-Chloro-2-methyl-1-propene	563-47-3				313		
2-Chloronaphthalene	91-58-7			5,000		U047	
Chlorophacinone	3691-35-8	100/10,000	100				
2-Chlorophenol	95-57-8			100		U048	
Chlorophenols	N084			***	313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
.alpha.- (2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
p-Chlorophenyl isocyanate	104-12-1				313		
4-Chlorophenyl phenyl ether	7005-72-3			5,000			
Chloropicrin	76-06-2				313		
Chloroprene	126-99-8			100	313		
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
1-Chloropropylene	590-21-6						10,000
2-Chloropropylene	557-98-2						10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-(4-((6-Chloro-2-quinoxalinyloxy)oxy]phenoxy)propanoic acid ethyl ester	76578-14-8				X		
Chlorosulfonic acid	7790-94-5		1,000				
Chlorotetrafluoroethane	63938-10-3				313		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0				313		
Chlorothalonil	1897-45-6				313		
p-Chloro-o-toluidine	95-69-2				313		
4-Chloro-o-toluidine, hydrochloride	3165-93-3		100			U049	
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
Chlorotrifluoromethane	75-72-9				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+-)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl)methyl ester	68085-85-8				X		
Chloroxuron	1982-47-4	500/10,000	500				
Chlorpyrifos	2921-88-2		1				
Chlorpyrifos methyl	5598-13-0				313		
Chlorsulfuron	64902-72-3				313		
Chlorthiophos	21923-23-9	500	500				
Chromic acetate	1066-30-4			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Chromic acid	11115-74-5			10	313c		
Chromic chloride	10025-73-7	1/10,000	1		313c		
Chromic sulfate	10101-53-8			1,000	313c		
Chromium	7440-47-3			5,000	313		
Chromium Compounds	N090			***	313		
Chromous chloride	10049-05-5			1,000	313c		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Chrysene	218-01-9			100	X	U050	
C.I. Acid Green 3	4680-78-8				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
C.I. Acid Red 114	6459-94-5				313		
C.I. Basic Green 4	569-64-2				313		
C.I. Basic Red 1	989-38-8				313		
C.I. Direct Black 38	1937-37-7				313		
C.I. Direct Blue 218	28407-37-6				313		
C.I. Direct Blue 6	2602-46-2				313		
C.I. Direct Brown 95	16071-86-6				313		
C.I. Disperse Yellow 3	2832-40-8				313		
C.I. Food Red 5	3761-53-3				313		
C.I. Food Red 15	81-88-9				313		
C.I. Solvent Orange 7	3118-97-6				313		
C.I. Solvent Yellow 3	97-56-3				313		
C.I. Solvent Yellow 14	842-07-9				313		
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
C.I. Vat Yellow 4	128-66-5				313		
Cobalt	7440-48-4				313		
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
Cobalt Compounds	N096			***	313		
Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidene))bis(6-fluorophenylato))(2)-N,N',O,O')	62207-76-5	100/10,000	100		313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Cobaltous formate	544-18-3			1,000	313c		
Cobaltous sulfamate	14017-41-5			1,000	313c		
Coke Oven Emissions	0			1			
Colchicine	64-86-8	10/10,000	10				
Copper	7440-50-8			5,000	313		
Copper Compounds	N100			***	313		
--Except copper phthalocyanine compounds (under 313)	0						
--Except C.I. Pigment Blue 15 (under 313)	0						
--Except C.I. Pigment Green 7 (under 313)	0						
--Except C.I. Pigment Green 36 (under 313)	0						
Copper cyanide	544-92-3			10	313c	P029	
Coumaphos	56-72-4	100/10,000	10	10			
Coumatetralyl	5836-29-3	500/10,000	500				
Creosote	8001-58-9			1	313	U051	
p-Cresidine	120-71-8				313		
m-Cresol	108-39-4			100	313	U052	
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
p-Cresol	106-44-5			100	313	U052	
Cresol (mixed isomers)	1319-77-3			100	313	U052	
Crimidine	535-89-7	100/10,000	100				
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Cumene	98-82-8			5,000	313	U055	
Cumene hydroperoxide	80-15-9			10	313	U096	
Cupferron	135-20-6				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cupric acetate	142-71-2			100	313c		
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		
Cupric chloride	7447-39-4			10	313c		
Cupric nitrate	3251-23-8			100	313c		
Cupric oxalate	5893-66-3			100	313c		
Cupric sulfate	7758-98-7			10	313c		
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Cupric tartrate	815-82-7			100	313c		
Cyanazine	21725-46-2				313		
Cyanide Compounds	N106			***	313		
Cyanides (soluble salts and complexes)	57-12-5			10	313c	P030	
Cyanogen	460-19-5			100		P031	10,000
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen chloride ((CN)Cl)	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		
Cyanophos	2636-26-2	1,000	1,000				
Cyanuric fluoride	675-14-9	100	100		313c		
Cycloate	1134-23-2				313		
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexane	110-82-7			1,000	313	U056	
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-	58-89-9	1,000/10,000	1	1	X	U129	
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Cycloheximide	66-81-9	100/10,000	100				
Cyclohexylamine	108-91-8	10,000	10,000				15,000
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Cyclophosphamide	50-18-0			10		U058	
Cyclopropane	75-19-4						10,000
Cyfluthrin	68359-37-5				313		
Cyhalothrin	68085-85-8				313		
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-11-1			100		X	
2,4-D Esters	94-79-1			100			
2,4-D Esters	94-80-4			100		X	
2,4-D Esters	1320-18-9			100		X	
2,4-D Esters	1928-38-7			100			
2,4-D Esters	1928-61-6			100			
2,4-D Esters	1929-73-3			100		X	
2,4-D Esters	2971-38-2			100		X	
2,4-D Esters	25168-26-7			100			
2,4-D Esters	53467-11-1			100			
2,4-D isopropyl ester	94-11-1			100	313		
2,4-D propylene glycol butyl	1320-18-9			100	313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
ether ester							
2,4-D, salts and esters	94-75-7			100		U240	
Daunomycin	20830-81-3			10		U059	
Dazomet	533-74-4				313		
Dazomet, sodium salt	53404-60-7				313		
2,4-DB	94-82-6				313		
DBCP	96-12-8			1	X	U066	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
DDE	3547-04-4			5,000			
DDT	50-29-3			1		U061	
DDT and Metabolites	0			***			
Decaborane(14)	17702-41-9	500/10,000	500				
Decabromodiphenyl oxide	1163-19-5				313		
DEF	78-48-8				X		
DEHP	117-81-7			100	X	U028	
Demeton	8065-48-3	500	500				
Demeton-S-methyl	919-86-8	500	500				
Desmedipharm	13684-56-5				313		
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dialifor	10311-84-9	100/10,000	100				
Diallate	2303-16-4			100	313	U062	
2,4-Diaminoanisole	615-05-4				313		
2,4-Diaminoanisole sulfate	39156-41-7				313		
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diaminotoluene	496-72-0			10		U221	
Diaminotoluene	823-40-5			10		U221	
2,4-Diaminotoluene	95-80-7			10	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
o-Dianisidine dihydrochloride	20325-40-0				X		
o-Dianisidine hydrochloride	111984-09-9				X		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Dibenz(a,h)acridine	226-36-8				313+^		
Dibenz(a,j)acridine	224-42-0				313+^		
Dibenz[a,h]anthracene	53-70-3			1	313+^	U063	
7H-Dibenzo(c,g)carbazole	194-59-2				313+^		
Dibenzo(a,e)fluoranthene	5385-75-1				313+^		
Dibenzofuran	132-64-9			100	313		
Dibenzo(a,e)pyrene	192-65-4				313+^		
Dibenzo(a,h)pyrene	189-64-0				313+^		
Dibenzo(a,l)pyrene	191-30-0				313+^		
Dibenzo[a,i]pyrene	189-55-9			10	X	U064	
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
1,2-Dibromoethane	106-93-4			1	313	U067	
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Dibromotetrafluoroethane	124-73-2				313		
Dibutyl phthalate	84-74-2		10	313	U069		
Dicamba	1918-00-9		1,000	313			
Dichlobenil	1194-65-6		100				
Dichlalone	117-80-6		1				
Dichloran	99-30-9				313		
Dichlorobenzene	25321-22-6		100	X			
o-Dichlorobenzene	95-50-1		100	X	U070		
1,2-Dichlorobenzene	95-50-1		100	313	U070		
1,3-Dichlorobenzene	541-73-1		100	313	U071		
1,4-Dichlorobenzene	106-46-7		100	313	U072		
Dichlorobenzene (mixed isomers)	25321-22-6		100	313			
3,3'-Dichlorobenzidine	91-94-1		1	313	U073		
Dichlorobenzidine	0		***				
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
Dichlorobromomethane	75-27-4		5,000	313			
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
1,4-Dichloro-2-butene	764-41-0		1	313	U074		
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
Dichlorodifluoromethane	75-71-8		5,000	313	U075		
1,1-Dichloroethane	75-34-3		1,000	X	U076		
1,2-Dichloroethane	107-06-2		100	313	U077		
3-(2,2-Dichloroethyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxyphenyl)methyl ester	52645-53-1				X		
3-(2,2-Dichloroethyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
1,1-Dichloroethylene	75-35-4		100	X	U078	10,000	
1,2-Dichloroethylene	156-60-5		1,000		U079		
1,2-Dichloroethylene	540-59-0				313		
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
Dichlorofluoromethane	75-43-4				313		
Dichloroisopropyl ether	108-60-1		1,000	X	U027		
Dichloromethane	75-09-2		1,000	313	U080		
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-	19666-30-9				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
dimethylethyl)-1,3,4-oxadiazol-2(3H)-one							
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
2,6-Dichloro-4-nitroaniline	99-30-9				X		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6				313		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
Dichlorophene	97-23-4				313		
2,4-Dichlorophenol	120-83-2		100	313	U081		
2,6-Dichlorophenol	87-65-0		100		U082		
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		
Dichlorophenylarsine	696-28-6	500	1	1		P036	
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		
1-(2-(2,4-Dichlorophenyl)-2-(2-propenoxy)ethyl)-1H-imidazole	35554-44-0				X		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole	60207-90-1				X		
Dichloropropane	26638-19-7		1,000				
Dichloropropane - Dichloropropene (mixture)	8003-19-8		100				
1,1-Dichloropropane	78-99-9		1,000				
1,2-Dichloropropane	78-87-5		1,000	313	U083		
1,3-Dichloropropane	142-28-9		5,000				
Dichloropropene	26952-23-8		100				
1,3-Dichloropropene	542-75-6		100	X	U084		
trans-1,3-Dichloropropene	10061-02-6				313		
2,3-Dichloropropene	78-88-6		100		313		
2,2-Dichloropropionic acid	75-99-0		5,000				

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,3-Dichloropropylene	542-75-6			100	313	U084	
Dichlorosilane	4109-96-0						10,000
Dichlorotetrafluoroethane	76-14-2				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
Dichlorotrifluoroethane	34077-87-7				313		
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
Dichlorvos	62-73-7	1,000	10	10	313		
Diclofop methyl	51338-27-3				313		
Dicofol	115-32-2			10	313		
Dicrotophos	141-66-2	100	100				
Dicyclopentadiene	77-73-6				313		
Dieldrin	60-57-1			1		P037	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Diethanolamine	111-42-2			100	313		
Diethyl methyl	38727-55-8				313		
Diethylamine	109-89-7			100			
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7					X	
N,N-Diethylaniline	91-66-7			1,000			
Diethylarsine	692-42-2			1		P038	
Diethyl chlorophosphate	814-49-3	500	500				
Diethyldiisocyanatobenzene	134190-37-7				313#		
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
Diethyl phthalate	84-66-2			1,000		U088	
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	
Diethylstilbestrol	56-53-1			1		U089	
Diethyl sulfate	64-67-5			10	313		
Diflubenzuron	35367-38-5				313		
Difluoroethane	75-37-6						10,000
Digitoxin	71-63-6	100/10,000	100				
Diglycidyl ether	2238-07-5	1,000	1,000				
Diglycidyl resorcinol ether	101-90-6				313		
Digoxin	20830-75-5	10/10,000	10				
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7					X	
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4					X	
Dihydrosafrole	94-58-6			10	313	U090	
Diisocyanates (includes only 20 chemicals)	N120				313		
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Dimefox	115-26-4	500	500				
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Dimethipin	55290-64-7				313		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
Dimethylamine	124-40-3			1,000	313	U092	10,000
Dimethylamine dicamba	2300-66-5				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	
N,N-Dimethylaniline	121-69-7			100	313		
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+^	U094	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
3,3'-Dimethylbenzidine dihydrochloride	612-82-8				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			1*	X	U278	
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyldichlorosilane	75-78-5	500	500				5,000
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
3,3'-Dimethylidiphenylmethane-4,4'-diisocyanate	139-25-3				313#		
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		
2,4-Dimethylphenol	105-67-9			100	313	U101	
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Dimethyl phthalate	131-11-3			5,000	313	U102	
2,2-Dimethylpropane	463-82-1						10,000
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Dimetilan	644-64-4	500/10,000	1*	1*		P191	
Dinitrobenzene (mixed isomers)	25154-54-5			100			
m-Dinitrobenzene	99-65-0			100	313		
o-Dinitrobenzene	528-29-0			100	313		
p-Dinitrobenzene	100-25-4			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Dinitrophenol	25550-58-7			10			
2,4-Dinitrophenol	51-28-5			10	313	P048	
2,5-Dinitrophenol	329-71-5			10			
2,6-Dinitrophenol	573-56-8			10			
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
2,4-Dinitrotoluene	121-14-2			10	313	U105	
2,6-Dinitrotoluene	606-20-2			100	313	U106	
3,4-Dinitrotoluene	610-39-9			10			
Dinocap	39300-45-3				313		
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Dinoterb	1420-07-1	500/10,000	500				
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-DiOctylphthalate	117-84-0			5,000		U107	
1,4-Dioxane	123-91-1			100	313	U108	
Dioxathion	78-34-2	500	500				
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313^		
Diphacinone	82-66-6	10/10,000	10				
Diphenamid	957-51-7				313		
Diphenylamine	122-39-4				313		
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Diphenylhydrazine	0			***			
Diphosphoramido, octamethyl-	152-16-9	100	100	100		P085	
Dipotassium endothall	2164-07-0				313		
Dipropylamine	142-84-7			5,000		U110	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Dipropyl isocinchomeronate	136-45-8				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Di-n-propylnitrosamine	621-64-7			10	X	U111	
Diquat	85-00-7			1,000			
Diquat	2764-72-9			1,000			
Disodium cyanodithiocimidocarbonate	138-93-2				313		
Disulfoton	298-04-4	500	1	1		P039	
Dithiazanine iodide	514-73-8	500/10,000	500				
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
Diuron	330-54-1			100	313		
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
2,4-DP	120-36-5				313		
2,4-D sodium salt	2702-72-9				313		
Emetine, dihydrochloride	316-42-7	1/10,000	1				
alpha - Endosulfan	959-98-8			1			
beta - Endosulfan	33213-65-9			1			
Endosulfan	115-29-7	10/10,000	1	1		P050	
Endosulfan and Metabolites	0			***			
Endosulfan sulfate	1031-07-8			1			
Endothall	145-73-3			1,000		P088	
Endothion	2778-04-3	500/10,000	500				
Endrin	72-20-8	500/10,000	1	1		P051	
Endrin aldehyde	7421-93-4			1			
Endrin and Metabolites	0			***			
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Epinephrine	51-43-4			1,000		P042	
EPN	2104-64-5	100/10,000	100				
EPTC	759-94-4				X		
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Ergotamine tartrate	379-79-3	500/10,000	500				
Ethanamine	75-04-7			100			10,000
Ethane	74-84-0						10,000
Ethane, chloro-	75-00-3			100		X	10,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethanedinitrile	460-19-5			100		P031	10,000
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000
Ethaneperoxoic acid	79-21-0	500	500		X		10,000
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Ethanethiol	75-08-1						10,000
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			1*		U394	
Ethanimidothioic acid, N-[methylamino]carbonyl]	16752-77-5	500/10,000	100	100		P066	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			1*		U395	
Ethene	74-85-1				X		10,000
Ethene, bromotrifluoro-	598-73-2						10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Ethene, chlorotrifluoro-	79-38-9						10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Ethene, ethoxy-	109-92-2						10,000
Ethene, fluoro-	75-02-5						10,000
Ethene, methoxy-	107-25-5						10,000
Ethene, tetrafluoro-	116-14-3						10,000
Ethion	563-12-2	1,000	10	10			
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
2-Ethoxyethanol	110-80-5			1,000	313	U359	
2-(1-(Ethoxymino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
2-((Ethoxy((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Ethyl acetate	141-78-6			5,000		U112	
Ethyl acetylene	107-00-6						10,000
Ethyl acrylate	140-88-5			1,000	313	U113	
3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Ethylbenzene	100-41-4			1,000	313		
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
Ethyl carbamate	51-79-6			100	X	U238	
Ethyl chloride	75-00-3			100	X		10,000
Ethyl chloroformate	541-41-3				313		
Ethyl-2-((((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Ethyl dipropylthiocarbamate	759-94-4				313		
Ethylene	74-85-1				313		10,000
Ethylenebisdiethiocarbamic acid, salts and esters	N171				313		
Ethylenebisdiethiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			
Ethylene dibromide	106-93-4			1	X	U067	
Ethylene dichloride	107-06-2			100	X	U077	
Ethylene fluorohydrin	371-62-0	10	10				

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethylene glycol	107-21-1			5,000	313		
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Ethylene thiourea	96-45-7			10	313	U116	
Ethyl ether	60-29-7			100		U117	10,000
Ethyldene Dichloride	75-34-3			1,000	313	U076	
Ethyl mercaptan	75-08-1						10,000
Ethyl methacrylate	97-63-2			1,000		U118	
Ethyl methanesulfonate	62-50-0			1		U119	
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Ethyl nitrite	109-95-5						10,000
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Ethylthiocyanate	542-90-5	10,000	10,000				
Ethyne	74-86-2						10,000
Famphur	52-85-7			1,000	313	P097	
Fenamiphos	22224-92-6	10/10,000	10				
Fenarimol	60168-88-9				313		
Fenbutatin oxide	13356-08-6				313		
Fenoxyprop ethyl	66441-23-4				313		
Fenoxtcarb	72490-01-8				313		
Fenpropathrin	39515-41-8				313		
Fensulfothion	115-90-2	500	500				
Fenthion	55-38-9				313		
Fenvalerate	51630-58-1				313		
Ferbam	14484-64-1				313		
Ferric ammonium citrate	1185-57-5			1,000			
Ferric ammonium oxalate	2944-67-4			1,000			
Ferric ammonium oxalate	55488-87-4			1,000			
Ferric chloride	7705-08-0			1,000			
Ferric fluoride	7783-50-8			100			
Ferric nitrate	10421-48-4			1,000			
Ferric sulfate	10028-22-5			1,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Ferrous chloride	7758-94-3			100			
Ferrous sulfate	7720-78-7			1,000			
Ferrous sulfate	7782-63-0			1,000			
Fine mineral fibers	0			***			
Fluazifop butyl	69806-50-4				313		
Fluenetil	4301-50-2	100/10,000	100				
Fluometuron	2164-17-2				313		
Fluoranthene	206-44-0			100	X	U120	
Fluorene	86-73-7			5,000			
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Fluoroacetic acid	144-49-0	10/10,000	10				
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Fluoroacetyl chloride	359-06-8	10	10				
Fluorouracil	51-21-8	500/10,000	500		313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
Fluvalinate	69409-94-5				313		
Folpet	133-07-3				313		
Fomesafen	72178-02-0				313		
Fonofos	944-22-9	500	500				
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Formetanate hydrochloride	23422-53-9	500/10,000	1*	1*		P198	
Formic acid	64-18-6			5,000	313	U123	
Formic acid, methyl ester	107-31-3						10,000
Formothion	2540-82-1	100	100				
Formparanate	17702-57-7	100/10,000	1*	1*		P197	
Fosthietan	21548-32-3	500	500				
Freon 113	76-13-1				313		
Fuberidazole	3878-19-1	100/10,000	100				
Fumaric acid	110-17-8			5,000			
Furan	110-00-9	500	100	100		U124	5,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furfural	98-01-1			5,000		U125	
Gallium trichloride	13450-90-3	500/10,000	500				
Glycidylaldehyde	765-34-4			10		U126	
Glycol Ethers	N230			***	313		
Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7			10		U163	
Guthion	86-50-0	10/10,000	1	1			
Haloethers	0			***			
Halomethanes	0			***			
Halon 1211	353-59-3				X		
Halon 1301	75-63-8				X		
Halon 2402	124-73-2				X		
HCFC-121	354-14-3				X		
HCFC-121a	354-11-0				X		
HCFC-123	306-83-2				X		
HCFC-123a	354-23-4				X		
HCFC-123b	812-04-4				X		
HCFC-124	2837-89-0				X		
HCFC-124a	354-25-6				X		
HCFC-132b	1649-08-7				X		
HCFC-133a	75-88-7				X		
HCFC-141b	1717-00-6				X		
HCFC-142b	75-68-3				X		
HCFC-21	75-43-4				X		
HCFC-22	75-45-6				X		
HCFC-225aa	128903-21-9				X		
HCFC-225ba	422-48-0				X		
HCFC-225bb	422-44-6				X		
HCFC-225ca	422-56-0				X		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-225cb	507-55-1				X		
HCFC-225cc	13474-88-9				X		
HCFC-225da	431-86-7				X		
HCFC-225ea	136013-79-1				X		
HCFC-225eb	111512-56-2				X		
HCFC-253fb	460-35-5				X		
Heptachlor	76-44-8		1	313^	P059		
Heptachlor and Metabolites	0		***				
Heptachlor epoxide	1024-57-3		1				
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!^		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!^		
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!^		
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8		1		X P059		
Hexachlorobenzene	118-74-1		10	313^	U127		
Hexachloro-1,3-butadiene	87-68-3		1	313	U128		
Hexachlorobutadiene	87-68-3		1		X U128		
Hexachlorocyclohexane (all isomers)	608-73-1		***				
alpha-Hexachlorocyclohexane	319-84-6		10	313			
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X U129		
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!^		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!^		
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!^		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!^		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!^		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!^		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!^		
Hexachloroethane	67-72-1		100	313	U131		
Hexachloronaphthalene	1335-87-1				313		
Hexachlorophene	70-30-4		100	313	U132		
Hexachloropropene	1888-71-7		1,000		U243		
Hexaethyl tetraphosphate	757-58-4		100		P062		
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Hexamethylphosphoramide	680-31-9			1	313		
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hexazinone	51235-04-2				313		
Hydramethylnon	67485-29-4				313		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Hydrazine sulfate	10034-93-2				313		
Hydrazobenzene	122-66-7			10	X	U109	
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen	1333-74-0						10,000
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Hydrogen selenide	7783-07-5	10	10		313c		500
Hydrogen sulfide	7783-06-4	500	100	100	313s	U135	10,000
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Imazalil	35554-44-0				313		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+^	U137	
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
Isobenzan	297-78-9	100/10,000	100				
Isobutane	75-28-5						10,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
Isobutylonitrile	78-82-0	1,000	1,000				20,000
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Isodrin	465-73-6	100/10,000	1	1	313^	P060	
Isofenphos	25311-71-1				313		
Isofluorophate	55-91-4	100	100	100		P043	
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Isopentane	78-78-4						10,000
Isophorone	78-59-1			5,000			

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Isophorone diisocyanate	4098-71-9	100	100		313#		
Isoprene	78-79-5			100			10,000
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Isopropyl alcohol (mfg-strong acid process)	67-63-0				313		
Isopropylamine	75-31-0						10,000
Isopropyl chloride	75-29-6						10,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
4,4'-Isopropylidenediphenol	80-05-7				313		
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	1*	1*		P192	
Isosafrole	120-58-1			100	313	U141	
Isothiocyanatomethane	556-61-6	500	500		X		
Kepone	143-50-0			1		U142	
Lactofen	77501-63-4				313		
Lactonitrile	78-97-7	1,000	1,000				
Lasiocarpine	303-34-4			10		U143	
Lead	7439-92-1			10	313^		
Lead acetate	301-04-2			10	313c	U144	
Lead arsenate	7645-25-2			1	313c		
Lead arsenate	7784-40-9			1	313c		
Lead arsenate	10102-48-4			1	313c		
Lead chloride	7758-95-4			10	313c		
Lead Compounds	N420			***	313^		
Lead fluoborate	13814-96-5			10	313c		
Lead fluoride	7783-46-2			10	313c		
Lead iodide	10101-63-0			10	313c		
Lead nitrate	10099-74-8			10	313c		
Lead phosphate	7446-27-7			10	313c	U145	
Lead stearate	1072-35-1			10	313c		
Lead stearate	7428-48-0			10	313c		
Lead stearate	52652-59-2			10	313c		
Lead stearate	56189-09-4			10	313c		
Lead subacetate	1335-32-6			10	313c	U146	
Lead sulfate	7446-14-2			10	313c		
Lead sulfate	15739-80-7			10	313c		
Lead sulfide	1314-87-0			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Leptophos	21609-90-5	500/10,000	500				
Lewisite	541-25-3	10	10				
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
Linuron	330-55-2				313		
Lithium carbonate	554-13-2				313		
Lithium chromate	14307-35-8			10	313c		
Lithium hydride	7580-67-8	100	100				
Malathion	121-75-5			100	313		
Maleic acid	110-16-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Maleic hydrazide	123-33-1			5,000		U148	
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
Maneb	12427-38-2				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Manganese	7439-96-5				313		
Manganese, bis(dimethylcarbamodithioato-S,S')	15339-36-3			1*	313c	P196	
Manganese Compounds	N450			***	313		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	100	100		313c		
MBOCA	101-14-4			10	X	U158	
MBT	149-30-4				X		
MCPA	94-74-6				X		
MDI	101-68-8			5,000	X		
Mechlorethamine	51-75-2	10	10		X		
Mecoprop	93-65-2				313		
Melphalan	148-82-3			1		U150	
Mephosfolan	950-10-7	500	500				
2-Mercaptobenzothiazole	149-30-4				313		
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Mercuric cyanide	592-04-1			1	313c		
Mercuric nitrate	10045-94-0			10	313c		
Mercuric oxide	21908-53-2	500/10,000	500		313c		
Mercuric sulfate	7783-35-9			10	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Mercurous nitrate	7782-86-7			10	313c		
Mercurous nitrate	10415-75-5			10	313c		
Mercury	7439-97-6			1	313^	U151	
Mercury Compounds	N458			***	313^		
Mercury fulminate	628-86-4			10	313c	P065	
Merphos	150-50-5				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Methacrylic anhydride	760-93-0	500	500				
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
Methacryloyl chloride	920-46-7	100	100				
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
Methamidophos	10265-92-6	100/10,000	100				
Metham sodium	137-42-8				313		
Methanamine	74-89-5			100			10,000
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
Methane	74-82-8						10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methane, oxybis-	115-10-6						10,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Methanesulfonyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Methane, tetrannitro-	509-14-8	500	10	10		P112	10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methanethiol	74-93-1	500	100	100	X	U153	10,000
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
Methanol	67-56-1			5,000	313	U154	
Methapyrilene	91-80-5			5,000		U155	
Methazole	20354-26-1				313		
Methidathion	950-37-8	500/10,000	500				
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Methoxone	94-74-6				313		
Methoxone sodium salt	3653-48-3				313		
Methoxychlor	72-43-5			1	313^	U247	
2-Methoxyethanol	109-86-4				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl)benzoic acid, methyl ester	101200-48-0				X		
Methyl acrylate	96-33-3				313		
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
2-Methyl-1-butene	563-46-2						10,000
3-Methyl-1-butene	563-45-1						10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl 2-chloroacrylate	80-63-7	500	500				
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroform	71-55-6			1,000	X	U226	
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
3-Methylcholanthrene	56-49-5			10	313+^	U157	
5-Methylchrysene	3697-24-3				313+^		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
2,2'-Methylenebis(4-chlorophenol)	97-23-4				X		
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
Methylene bromide	74-95-3			1,000	313	U068	
Methylene chloride	75-09-2			1,000	X	U080	
4,4'-Methylenedianiline	101-77-9			10	313		
Methyl ether	115-10-6						10,000
Methyl ethyl ketone	78-93-3			5,000	313	U159	
Methyl ethyl ketone (MEK)	78-93-3			5,000	X	U159	
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Methyl formate	107-31-3						10,000

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Methyl iodide	74-88-4			100	313	U138	
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
Methyl methacrylate	80-62-6			1,000	313	U162	
N-Methylolacrylamide	924-42-5				313		
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Methyl phenkapton	3735-23-7	500	500				
Methyl phosphonic dichloride	676-97-1	100	100				
2-Methylpropene	115-11-7						10,000
2-Methylpyridine	109-06-8			5,000	313	U191	
N-Methyl-2-pyrrolidone	872-50-4				313		
Methyl tert-butyl ether	1634-04-4			1,000	313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Methylthiouracil	56-04-2			10		U164	
Methyltrichlorosilane	75-79-6	500	500				5,000
Methyl vinyl ketone	78-94-4	10	10				
Metiram	9006-42-2				313		
Metolcarb	1129-41-5	100/10,000	1*	1*		P190	
Metribuzin	21087-64-9				313		
Mevinphos	7786-34-7	500	10	10	313		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Michler's ketone	90-94-8				313		
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Molinate	2212-67-1				313		
Molybdenum trioxide	1313-27-5				313		
Monochloropentafluoroethane	76-15-3				313		
Monocrotophos	6923-22-4	10/10,000	10				
Monoethylamine	75-04-7			100			10,000
Monomethylamine	74-89-5			100			10,000
Monuron	150-68-5				313		
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Mustard gas	505-60-2	500	500		313		
Myclobutanil	88671-89-0				313		
Nabam	142-59-6				313		
Naled	300-76-5			10	313		
Naphthalene	91-20-3			100	313	U165	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Naphthenic acid	1338-24-5			100			
1,4-Naphthoquinone	130-15-4			5,000		U166	
alpha-Naphthylamine	134-32-7			100	313	U167	
beta-Naphthylamine	91-59-8			10	313	U168	
Nickel	7440-02-0			100	313		
Nickel ammonium sulfate	15699-18-0			100	313c		
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Nickel chloride	7718-54-9			100	313c		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nickel chloride	37211-05-5			100	313c		
Nickel Compounds	N495			***	313		
Nickel cyanide	557-19-7			10	313c	P074	
Nickel hydroxide	12054-48-7			10	313c		
Nickel nitrate	14216-75-2			100	313c		
Nickel sulfate	7786-81-4			100	313c		
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	54-11-5			100	313c	P075	
Nicotine and salts	N503				313		
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Nitrapyrin	1929-82-4				313		
Nitrate compounds (water dissociable)	N511				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Nitric oxide	10102-43-9	100	10	10		P076	10,000
Nitrilotriacetic acid	139-13-9				313		
p-Nitroaniline	100-01-6			5,000	313	P077	
5-Nitro-o-anisidine	99-59-2				313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
4-Nitrobiphenyl	92-93-3			10	313		
Nitrocyclohexane	1122-60-7	500	500				
Nitrofen	1836-75-5				313		
Nitrogen dioxide	10102-44-0	100	10	10		P078	
Nitrogen dioxide	10544-72-6			10			
Nitrogen mustard	51-75-2	10	10		313		
Nitrogen oxide (NO)	10102-43-9	100	10	10		P076	10,000
Nitroglycerin	55-63-0			10	313	P081	
Nitrophenol (mixed isomers)	25154-55-6			100			
2-Nitrophenol	88-75-5			100	313		
4-Nitrophenol	100-02-7			100	313	U170	
m-Nitrophenol	554-84-7			100			
p-Nitrophenol	100-02-7			100	X	U170	
Nitrophenols	0			***			
2-Nitropropane	79-46-9			10	313	U171	
1-Nitropyrene	5522-43-0				313+^		
Nitrosamines	0			***			
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Nitrosodiethanolamine	1116-54-7			1		U173	
N-Nitrosodiethylamine	55-18-5			1	313	U174	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
N-Nitrosodiphenylamine	86-30-6			100	313		
p-Nitrosodiphenylamine	156-10-5				313		
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
N-Nitroso-N-methylurethane	615-53-2			1		U178	
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
N-Nitrosomorpholine	59-89-2			1	313		
N-Nitrosonornicotine	16543-55-8				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N-Nitrosopiperidine	100-75-4			10	313	U179	
N-Nitrosopyrrolidine	930-55-2			1		U180	
Nitrotoluene	1321-12-6			1,000			
m-Nitrotoluene	99-08-1			1,000			
o-Nitrotoluene	88-72-2			1,000			
p-Nitrotoluene	99-99-0			1,000			
5-Nitro-o-toluidine	99-55-8			100	313	U181	
Nitrous acid, ethyl ester	109-95-5						10,000
Norbormide	991-42-4	100/10,000	100				
Norflurazon	27314-13-2				313		
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!^		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!^		
Octachloronaphthalene	2234-13-1				313		
Octachlorostyrene	29082-74-4				313^		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	**			
Oryzalin	19044-88-3				313		
Osmium oxide OsO4 (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Ouabain	630-60-4	100/10,000	100				
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Oxamyl	23135-22-0	100/10,000	1*	1*		P194	
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Oxydemeton methyl	301-12-2				313		
Oxydiazon	19666-30-9				313		
Oxydisulfoton	2497-07-6	500	500				
Oxyfluorfen	42874-03-3				313		
Ozone	10028-15-6	100	100		313		
Paraformaldehyde	30525-89-4			1,000			
Paraldehyde	123-63-7			1,000	313	U182	
Paraquat dichloride	1910-42-5	10/10,000	10		313		
Paraquat methosulfate	2074-50-2	10/10,000	10				
Parathion	56-38-2	100	10	10	313	P089	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Paris green	12002-03-8	500/10,000	1	1			
PCBs	1336-36-3			1		X	
PCNB	82-68-8			100	X	U185	
PCP	87-86-5			10	X		
Pebulate	1114-71-2				313		
Pendimethalin	40487-42-1				313^		
Pentaborane	19624-22-7	500	500				
Pentachlorobenzene	608-93-5			10	313^	U183	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,2,3,7,8-pentachlorodibenz-p-dioxin	40321-76-4				313!^		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!^		
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!^		
Pentachloroethane	76-01-7		10	313	U184		
Pentachloronitrobenzene	82-68-8		100	X	U185		
Pentachlorophenol	87-86-5		10	313			
Pentadecylamine	2570-26-5	100/10,000	100				
1,3-Pentadiene	504-60-9		100		U186	10,000	
Pentane	109-66-0						10,000
1-Pentene	109-67-1						10,000
2-Pentene, (E)-	646-04-8						10,000
2-Pentene, (Z)-	627-20-3						10,000
Pentobarbital sodium	57-33-0				313		
Peracetic acid	79-21-0	500	500		313		10,000
Perchloroethylene	127-18-4		100	X	U210		
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Permethrin	52645-53-1				313		
Phenacetin	62-44-2		100		U187		
Phenanthrene	85-01-8		5,000		313		
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1		100	X	U411		
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	1*	1*		P202	
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
Phenothrin	26002-80-2				313		
Phenoxyarsine, 10,10'-oxydi-(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	58-36-6	500/10,000	500				
Phenyl dichloroarsine	72490-01-8				X		
(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester	696-28-6	500	1	1		P036	
1,2-Phenylenediamine	23564-06-9				X		
1,3-Phenylenediamine	95-54-5				313		
p-Phenylenediamine	108-45-2				313		
1,2-Phenylenediamine dihydrochloride	106-50-3			5,000	313		
1,4-Phenylenediamine dihydrochloride	615-28-1				313		
1,3-Phenylene diisocyanate	624-18-0				313		
1,4-Phenylene diisocyanate	123-61-5				313#		
Phenylhydrazine hydrochloride	104-49-4				313#		
Phenylmercuric acetate	59-88-1	1,000/10,000	1,000				
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxyl	10453-86-8			100	313c	P092	

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
ate							
2-Phenylphenol	90-43-7				313		
Phenylsilatrane	2097-19-0	100/10,000	100				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
Phentyoin	57-41-0				313		
Phorate	298-02-2	10	10	10		P094	
Phosacetim	4104-14-7	100/10,000	100				
Phosfolan	947-02-4	100/10,000	100				
Phosgene	75-44-5	10	10	10	313	P095	500
Phosmet	732-11-6	10/10,000	10				
Phosphamidon	13171-21-6	100	100				
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-dimethyl ester	52-68-6			100		X	
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Phosphoric acid	7664-38-2			5,000			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5					X	
Phosphoric acid, 2-dichloroethenyl dimethyl ester	62-73-7	1,000	10	10		X	
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000			X	
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10		X	P089
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus	7723-14-0	100	1	1			
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphorus pentachloride	10026-13-8	500	500				
Phosphorus trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Phthalate Esters	0			***			
Phthalic anhydride	85-44-9			5,000	313	U190	
Physostigmine	57-47-6	100/10,000	1*	1*		P204	
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	1*	1*		P188	
Picloram	1918-02-1				313		
2-Picoline	109-06-8			5,000	X	U191	
Picric acid	88-89-1				313		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Picrotoxin	124-87-8	500/10,000	500				
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Piperidine	110-89-4	1,000	1,000				15,000
Piperonyl butoxide	51-03-6				313		
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Pirimiphos methyl	29232-93-7				313		
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polychlorinated biphenyls	1336-36-3			1	313^		
Polycyclic aromatic compounds (includes only 19 chemicals)	N590				313^		
Polycyclic organic matter	0			***			
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Polynuclear Aromatic Hydrocarbons	0			***			
Potassium arsenate	7784-41-0			1	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		
Potassium bromate	7758-01-2				313		
Potassium chromate	7789-00-6			10	313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Potassium dimethyldithiocarbamate	128-03-0				313		
Potassium hydroxide	1310-58-3			1,000			
Potassium N-methyldithiocarbamate	137-41-7				313		
Potassium permanganate	7722-64-7			100	313c		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Profenofos	41198-08-7				313		
Promecarb	2631-37-0	500/10,000	1*	1*		P201	
Prometryn	7287-19-6				313		
Pronamide	23950-58-5			5,000	313	U192	
Propachlor	1918-16-7				313		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
2-Propanamine	75-31-0						10,000
Propane	74-98-6						10,000
Propane, 2-chloro-	75-29-6						10,000
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
Propane, 2,2-dimethyl-	463-82-1						10,000
Propane, 2-methyl	75-28-5						10,000
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
1,3-Propane sultone	1120-71-4			10	X	U193	
Propane sultone	1120-71-4			10	313	U193	
Propanil	709-98-8				313		

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Propargite	2312-35-8			10	313		
Propargyl alcohol	107-19-7			1,000	313	P102	
Propargyl bromide	106-96-7	10	10				
2-Propenal	107-02-8	500	1	1	X	P003	5,000
2-Propen-1-amine	107-11-9	500	500		X		10,000
Propene	115-07-1				X		10,000
1-Propene	115-07-1				X		10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Propene, 2-chloro-	557-98-2						10,000
1-Propene, 2-methyl-	115-11-7						10,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000
2-Propenoyl chloride	814-68-6	100	100				5,000
Propetamphos	31218-83-4				313		
Propham	122-42-9			1*		U373	
Propiconazole	60207-90-1				313		
beta-Propiolactone	57-57-8	500	10	10	313		
Propionaldehyde	123-38-6			1,000	313		
Propionic acid	79-09-4			5,000			
Propionic anhydride	123-62-6			5,000			
Propionitrile	107-12-0	500	10	10		P101	10,000
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
Propoxur	114-26-1			100	313	U411	
n-Propylamine	107-10-8			5,000		U194	
Propyl chloroformate	109-61-5	500	500				15,000
Propylene	115-07-1				313		10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Prothoate	2275-18-5	100/10,000	100				
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Pyrethrins	8003-34-7			1			
Pyridine	110-86-1			1,000	313	U196	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-(S)-	54-11-5	100	100	100		P075	
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
Pyriminil	53558-25-1	100/10,000	100				
Quinoline	91-22-5			5,000	313		
Quinone	106-51-4			10	313	U197	
Quintozeno	82-68-8			100	313	U185	
Quizalofop-ethyl	76578-14-8				313		
Reserpine	50-55-5			5,000		U200	

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Resmethrin	10453-86-8				313		
Resorcinol	108-46-3			5,000		U201	
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	
Safrole	94-59-7			100	313	U203	
Salcomine	14167-18-1	500/10,000	500				
Sarin	107-44-8	10	10				
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Selenium	7782-49-2			100	313		
Selenium Compounds	N725			***	313		
Selenium dioxide	7446-08-4			10	313c		
Selenium oxychloride	7791-23-3	500	500		313c		
Selenium sulfide	7488-56-4			10	313c	U205	
Selenourea	630-10-4			1,000		P103	
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
Sethoxydim	74051-80-2				313		
Silane	7803-62-5						10,000
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000
Silane, dichloro-	4109-96-0						10,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Silane, tetramethyl-	75-76-3						10,000
Silane, trichloro-	10025-78-2						10,000
Silane, trichloromethyl-	75-79-6	500	500				5,000
Silver	7440-22-4			1,000	313		
Silver Compounds	N740			***	313		
Silver cyanide	506-64-9			1	313c	P104	
Silver nitrate	7761-88-8			1	313c		
Silvex (2,4,5-TP)	93-72-1			100			
Simazine	122-34-9				313		
Sodium	7440-23-5			10			
Sodium arsenate	7631-89-2	1,000/10,000	1	1	313c		
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Sodium bichromate	10588-01-9			10	313c		
Sodium bifluoride	1333-83-1			100			
Sodium bisulfite	7631-90-5			5,000			
Sodium cacodylate	124-65-2	100/10,000	100				
Sodium chromate	7775-11-3			10	313c		
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Sodium dicamba	1982-69-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Sodium fluoride	7681-49-4			1,000			
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Sodium hydrosulfide	16721-80-5			5,000			
Sodium hydroxide	1310-73-2			1,000			
Sodium hypochlorite	7681-52-9			100			

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Sodium hypochlorite	10022-70-5			100			
Sodium methylate	124-41-4			1,000			
Sodium methyldithiocarbamate	137-42-8				X		
Sodium nitrite	7632-00-0			100	313		
Sodium pentachlorophenate	131-52-2				313		
Sodium o-phenylphenoxide	132-27-4				313		
Sodium phosphate, dibasic	7558-79-4			5,000			
Sodium phosphate, dibasic	10039-32-4			5,000			
Sodium phosphate, dibasic	10140-65-5			5,000			
Sodium phosphate, tribasic	7601-54-9			5,000			
Sodium phosphate, tribasic	7758-29-4			5,000			
Sodium phosphate, tribasic	7785-84-4			5,000			
Sodium phosphate, tribasic	10101-89-0			5,000			
Sodium phosphate, tribasic	10124-56-8			5,000			
Sodium phosphate, tribasic	10361-89-4			5,000			
Sodium selenate	13410-01-0	100/10,000	100		313c		
Sodium selenite	7782-82-3			100	313c		
Sodium selenite	10102-18-8	100/10,000	100	100	313c		
Sodium tellurite	10102-20-2	500/10,000	500				
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Streptozotocin	18883-66-4			1		U206	
Strontium chromate	7789-06-2			10	313c		
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine and salts	N746				313		
Strychnine, and salts	57-24-9			10	313c	P108	
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Styrene	100-42-5			1,000	313		
Styrene oxide	96-09-3			100	313		
Sulfotep	3689-24-5	500	100	100		P109	
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500			5,000	
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Sulfur monochloride	12771-08-3			1,000			
Sulfur phosphide	1314-80-3			100		U189	
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Sulfur trioxide	7446-11-9	100	100				10,000
Sulfuryl fluoride	2699-79-8				313		
Sulprofos	35400-43-2				313		
2,4,5-T acid	93-76-5			1,000			
2,4,5-T amines	1319-72-8			5,000			
2,4,5-T amines	2008-46-0			5,000			
2,4,5-T amines	3813-14-7			5,000			
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
2,4,5-T esters	93-79-8			1,000			

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2,4,5-T esters	1928-47-8			1,000			
2,4,5-T esters	2545-59-7			1,000			
2,4,5-T esters	25168-15-4			1,000			
2,4,5-T esters	61792-07-2			1,000			
2,4,5-T salts	13560-99-1			1,000			
Tabun	77-81-6	10	10				
Tebuthiuron	34014-18-1				313		
Tellurium hexafluoride	7783-80-4	100	100				
Temephos	3383-96-8				313		
TEPP	107-49-3	100	10	10		P111	
Terbacil	5902-51-2				313		
Terbufos	13071-79-9	100	100				
Tetrabromobisphenol A	79-94-7				313^		
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!^		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!^		
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
Tetrachloroethylene	127-18-4			100	313	U210	
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
Tetrachlorvinphos	961-11-5				313		
Tetracycline hydrochloride	64-75-5				313		
Tetraethylthiopyrophosphate	3689-24-5	500	100	100		P109	
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Tetraethyltin	597-64-8	100	100				
Tetrafluoroethylene	116-14-3						10,000
Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone	67485-29-4				X		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
Tetramethrin	7696-12-0				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
Tetramethyllead	75-74-1	100	100		313c		10,000
Tetramethylsilane	75-76-3						10,000
Tetranitromethane	509-14-8	500	10	10		P112	10,000
Thallic oxide	1314-32-5			100	313c	P113	
Thallium	7440-28-0			1,000	313		
Thallium(I) acetate	563-68-8			100	313c	U214	

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Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallium chloride TICI	7791-12-0	100/10,000	100	100	313c	U216	
Thallium Compounds	N760			***	313		
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Thallous malonate	2757-18-8	100/10,000	100				
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thiabendazole	148-79-8				313		
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Thioacetamide	62-55-5			10	313	U218	
Thiobencarb	28249-77-6				313		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000
4,4'-Thiodianiline	139-65-1				313		
Thiodicarb	59669-26-0			1*	313	U410	
Thifanox	39196-18-4	100/10,000	100	100		P045	
Thiomethanol	74-93-1	500	100	100		X U153	10,000
Thionazin	297-97-2	500	100	100		P040	
Thiophanate ethyl	23564-06-9				313		
Thiophanate-methyl	23564-05-8			1*	313	U409	
Thiophenol	108-98-5	500	100	100		P014	
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Thiourea	62-56-6			10	313	U219	
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
Thiram	137-26-8			10	313	U244	
Thorium dioxide	1314-20-1				313		
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000		X	2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
o-Tolidine	119-93-7			10		X U095	
o-Tolidine dihydrochloride	612-82-8				X		
o-Tolidine dihydrofluoride	41766-75-0				X		
Toluene	108-88-3			1,000	313	U220	
Toluenediamine	25376-45-8			10		X U221	
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100		X U223	10,000
o-Toluidine	95-53-4			100	313	U328	
p-Toluidine	106-49-0			100		U353	
o-Toluidine hydrochloride	636-21-5			100	313	U222	
Toxaphene	8001-35-2	500/10,000	1	1	313^	P123	
2,4,5-TP esters	32534-95-5			100			
Triadimefon	43121-43-3				313		
Triallate	2303-17-5			1*	313	U389	

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Triamiphos	1031-47-6	500/10,000	500				
Triaziquone	68-76-8				313		
Triazofos	24017-47-8	500	500				
Tribenuron methyl	101200-48-0				313		
Tribromomethane	75-25-2			100	X	U225	
Tributyltin fluoride	1983-10-4				313		
Tributyltin methacrylate	2155-70-6				313		
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Trichlorfon	52-68-6			100	313		
Trichloroacetyl chloride	76-02-8	500	500		313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Trichloroethylsilane	115-21-9	500	500				
Trichlorofluoromethane	75-69-4			5,000	313	U121	
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
Trichloronate	327-98-0	500	500				
Trichlorophenol	25167-82-2			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,4,5-Trichlorophenol	95-95-4			10	313		
2,4,6-Trichlorophenol	88-06-2			10	313		
3,4,5-Trichlorophenol	609-19-8			10			
Trichlorophenylsilane	98-13-5	500	500				
1,2,3-Trichloropropane	96-18-4				313		
Trichlorosilane	10025-78-2						10,000
Triclopyr triethylammonium salt	57213-69-1				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Triethoxysilane	998-30-1	500	500				
Triethylamine	121-44-8			5,000	313	U404	
Trifluorochloroethylene	79-38-9						10,000
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)-phenoxy)propanoic acid, butyl ester	69806-50-4				X		
Trifluralin	1582-09-8			10	313^		
Triforine	26644-46-2				313		
Trimethylamine	75-50-3			100			10,000
1,2,4-Trimethylbenzene	95-63-6				313		
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
2,2,4-Trimethylpentane	540-84-1			1,000			

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2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Trimethyltin chloride	1066-45-1	500/10,000	500				
1,3,5-Trinitrobenzene	99-35-4			10		U234	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Triphenyltin hydroxide	76-87-9				313		
Tris(2-chloroethyl)amine	555-77-1	100	100				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Trypan blue	72-57-1			10	313	U236	
Uracil mustard	66-75-1			10		U237	
Uranyl acetate	541-09-3			100			
Uranyl nitrate	10102-06-4			100			
Uranyl nitrate	36478-76-9			100			
Urea, N,N-dimethyl-N'-(3-(trifluoromethyl)phenyl)-	2164-17-2				X		
Urethane	51-79-6			100	313	U238	
Valinomycin	2001-95-8	1,000/10,000	1,000				
Vandium (except when contained in an alloy)	7440-62-2				313		
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Vanadyl sulfate	27774-13-6			1,000	313c		
Vandium Compounds	N770				313		
Vikane	2699-79-8				X		
Vinclozolin	50471-44-8				313		
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetylene	689-97-4						10,000
Vinyl bromide	593-60-2			100	313		
Vinyl chloride	75-01-4			1	313	U043	10,000
Vinyl ethyl ether	109-92-2						10,000
Vinyl fluoride	75-02-5						10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Vinylidene fluoride	75-38-7						10,000
Vinyl methyl ether	107-25-5						10,000
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	
Warfarin and salts	N874				313		
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
m-Xylene	108-38-3			1,000	313	U239	
o-Xylene	95-47-6			1,000	313	U239	
p-Xylene	106-42-3			100	313	U239	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Xylenol	1300-71-6			1,000			
2,6-Xyldine	87-62-7				313		
Xylylene dichloride	28347-13-9	100/10,000	100				
Zinc	7440-66-6			1,000			
Zinc (fume or dust)	7440-66-6			1,000	313		
Zinc acetate	557-34-6			1,000	313c		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Zinc ammonium chloride	52628-25-8			1,000	313c		
Zinc borate	1332-07-6			1,000	313c		
Zinc bromide	7699-45-8			1,000	313c		
Zinc carbonate	3486-35-9			1,000	313c		
Zinc chloride	7646-85-7			1,000	313c		
Zinc Compounds	N982			***	313		
Zinc cyanide	557-21-1			10	313c	P121	
Zinc, dichloro(4,4-dimethyl-5(((methylamino)carbonyl)oxy)imino)pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Zinc fluoride	7783-49-5			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Zinc phenolsulfonate	127-82-2			5,000	313c		
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Zinc silicofluoride	16871-71-9			5,000	313c		
Zinc sulfate	7733-02-0			1,000	313c		
Zineb	12122-67-7				313		
Ziram	137-30-4			1*		P205	
Zirconium nitrate	13746-89-9			5,000			
Zirconium potassium fluoride	16923-95-8			1,000			
Zirconium sulfate	14644-61-2			5,000			
Zirconium tetrachloride	10026-11-6			5,000			

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<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>	<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Radionuclides (unlisted)		1	Barium-128	56	10
Actinium-224	89	100	Barium-131	56	10
Actinium-225	89	1	Barium-131m	56	1000
Actinium-226	89	10	Barium-133	56	10
Actinium-227	89	0.001	Barium-133m	56	100
Actinium-228	89	10	Barium-135m	56	1000
Aluminum-026	13	10	Barium-139	56	1000
Americium-237	95	1000	Barium-140	56	10
Americium-238	95	100	Barium-141	56	1000
Americium-239	95	100	Barium-142	56	1000
Americium-240	95	10	Berkelium-245	97	100
Americium-241	95	0.01	Berkelium-246	97	10
Americium-242	95	100	Berkelium-247	97	0.01
Americium-242m	95	0.01	Berkelium-249	97	1
Americium-243	95	0.01	Berkelium-250	97	100
Americium-244	95	10	Beryllium-007	4	100
Americium-244m	95	1000	Beryllium-010	4	1
Americium-245	95	1000	Bismuth-200	83	100
Americium-246	95	1000	Bismuth-201	83	100
Americium-246m	95	1000	Bismuth-202	83	1000
Antimony-115	51	1000	Bismuth-203	83	10
Antimony-116	51	1000	Bismuth-205	83	10
Antimony-116m	51	100	Bismuth-206	83	10
Antimony-117	51	1000	Bismuth-207	83	10
Antimony-118m	51	10	Bismuth-210	83	10
Antimony-119	51	1000	Bismuth-210m	83	0.1
Antimony-120 (16 min)	51	1000	Bismuth-212	83	100
Antimony-120 (5.76 day)	51	10	Bismuth-213	83	100
Antimony-122	51	10	Bismuth-214	83	100
Antimony-124	51	10	Bromine-074	35	100
Antimony-124m	51	1000	Bromine-074m	35	100
Antimony-125	51	10	Bromine-075	35	100
Antimony-126	51	10	Bromine-076	35	10
Antimony-126m	51	1000	Bromine-077	35	100
Antimony-127	51	10	Bromine-080	35	1000
Antimony-128 (10.4 min)	51	1000	Bromine-080m	35	1000
Antimony-128 (9.01 hours)	51	10	Bromine-082	35	10
Antimony-129	51	100	Bromine-083	35	1000
Antimony-130	51	100	Bromine-084	35	100
Antimony-131	51	1000	Cadmium-104	48	1000
Argon-039	18	1000	Cadmium-107	48	1000
Argon-041	18	10	Cadmium-109	48	1
Arsenic-069	33	1000	Cadmium-113	48	0.1
Arsenic-070	33	100	Cadmium-113m	48	0.1
Arsenic-071	33	100	Cadmium-115	48	100
Arsenic-072	33	10	Cadmium-115m	48	10
Arsenic-073	33	100	Cadmium-117	48	100
Arsenic-074	33	10	Cadmium-117m	48	10
Arsenic-076	33	100	Calcium-041	20	10
Arsenic-077	33	1000	Calcium-045	20	10
Arsenic-078	33	100	Calcium-047	20	10
Astatine-207	85	100	Californium-244	98	1000
Astatine-211	85	100	Californium-246	98	10
Barium-126	56	1000	Californium-248	98	0.1

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Californium-249	98	0.01	Curium-245	96	0.01
Californium-250	98	0.01	Curium-246	96	0.01
Californium-251	98	0.01	Curium-247	96	0.01
Californium-252	98	0.1	Curium-248	96	0.001
Californium-253	98	10	Curium-249	96	1000
Californium-254	98	0.1	Dysprosium-155	66	100
Carbon-011	6	1000	Dysprosium-157	66	100
Carbon-014	6	10	Dysprosium-159	66	100
Cerium-134	58	10	Dysprosium-165	66	1000
Cerium-135	58	10	Dysprosium-166	66	10
Cerium-137	58	1000	Einsteinium-250	99	10
Cerium-137m	58	100	Einsteinium-251	99	1000
Cerium-139	58	100	Einsteinium-253	99	10
Cerium-141	58	10	Einsteinium-254	99	0.1
Cerium-143	58	100	Einsteinium-254m	99	1
Cerium-144	58	1	Erbium-161	68	100
Cesium-125	55	1000	Erbium-165	68	1000
Cesium-127	55	100	Erbium-169	68	100
Cesium-129	55	100	Erbium-171	68	100
Cesium-130	55	1000	Erbium-172	68	10
Cesium-131	55	1000	Europium-145	63	10
Cesium-132	55	10	Europium-146	63	10
Cesium-134	55	1	Europium-147	63	10
Cesium-134m	55	1000	Europium-148	63	10
Cesium-135	55	10	Europium-149	63	100
Cesium-135m	55	100	Europium-150 (12.6 hours)	63	1000
Cesium-136	55	10	Europium-150 (34.2 yr)	63	10
Cesium-137	55	1	Europium-152	63	10
Cesium-138	55	100	Europium-152m	63	100
Chlorine-036	17	10	Europium-154	63	10
Chlorine-038	17	100	Europium-155	63	10
Chlorine-039	17	100	Europium-156	63	10
Chromium-048	24	100	Europium-157	63	10
Chromium-049	24	1000	Europium-158	63	1000
Chromium-051	24	1000	Fermium-252	100	10
Cobalt-055	27	10	Fermium-253	100	10
Cobalt-056	27	10	Fermium-254	100	100
Cobalt-057	27	100	Fermium-255	100	100
Cobalt-058	27	10	Fermium-257	100	1
Cobalt-058m	27	1000	Fluorine-018	9	1000
Cobalt-060	27	10	Francium-222	87	100
Cobalt-060m	27	1000	Francium-223	87	100
Cobalt-061	27	1000	Gadolinium-145	64	100
Cobalt-062m	27	1000	Gadolinium-146	64	10
Copper-060	29	100	Gadolinium-147	64	10
Copper-061	29	100	Gadolinium-148	64	0.001
Copper-064	29	1000	Gadolinium-149	64	100
Copper-067	29	100	Gadolinium-151	64	100
Curium-238	96	1000	Gadolinium-152	64	0.001
Curium-240	96	1	Gadolinium-153	64	10
Curium-241	96	10	Gadolinium-159	64	1000
Curium-242	96	1	Gallium-065	31	1000
Curium-243	96	0.01	Gallium-066	31	10
Curium-244	96	0.01	Gallium-067	31	100

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<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>	<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Gallium-068	31	1000	Indium-115m	49	100
Gallium-070	31	1000	Indium-116m	49	100
Gallium-072	31	10	Indium-117	49	1000
Gallium-073	31	100	Indium-117m	49	100
Germanium-066	32	100	Indium-119m	49	1000
Germanium-067	32	1000	Iodine-120	53	10
Germanium-068	32	10	Iodine-120m	53	100
Germanium-069	32	10	Iodine-121	53	100
Germanium-071	32	1000	Iodine-123	53	10
Germanium-075	32	1000	Iodine-124	53	0.1
Germanium-077	32	10	Iodine-125	53	0.01
Germanium-078	32	1000	Iodine-126	53	0.01
Gold-193	79	100	Iodine-128	53	1000
Gold-194	79	10	Iodine-129	53	0.001
Gold-195	79	100	Iodine-130	53	1
Gold-198	79	100	Iodine-131	53	0.01
Gold-198m	79	10	Iodine-132	53	10
Gold-199	79	100	Iodine-132m	53	10
Gold-200	79	1000	Iodine-133	53	0.1
Gold-200m	79	10	Iodine-134	53	100
Gold-201	79	1000	Iodine-135	53	10
Hafnium-170	72	100	Iridium-182	77	1000
Hafnium-172	72	1	Iridium-184	77	100
Hafnium-173	72	100	Iridium-185	77	100
Hafnium-175	72	100	Iridium-186	77	10
Hafnium-177m	72	1000	Iridium-187	77	100
Hafnium-178m	72	0.1	Iridium-188	77	10
Hafnium-179m	72	100	Iridium-189	77	100
Hafnium-180m	72	100	Iridium-190	77	10
Hafnium-181	72	10	Iridium-190m	77	1000
Hafnium-182	72	0.1	Iridium-192	77	10
Hafnium-182m	72	100	Iridium-192m	77	100
Hafnium-183	72	100	Iridium-194	77	100
Hafnium-184	72	100	Iridium-194m	77	10
Holmium-155	67	1000	Iridium-195	77	1000
Holmium-157	67	1000	Iridium-195m	77	100
Holmium-159	67	1000	Iron-052	26	100
Holmium-161	67	1000	Iron-055	26	100
Holmium-162	67	1000	Iron-059	26	10
Holmium-162m	67	1000	Iron-060	26	0.1
Holmium-164	67	1000	Krypton-074	36	10
Holmium-164m	67	1000	Krypton-076	36	10
Holmium-166	67	100	Krypton-077	36	10
Holmium-166m	67	1	Krypton-079	36	100
Holmium-167	67	100	Krypton-081	36	1000
Hydrogen-003	1	100	Krypton-083m	36	1000
Indium-109	49	100	Krypton-085	36	1000
Indium-110 (4.9 hours)	49	10	Krypton-085m	36	100
Indium-110 (69.1 min)	49	100	Krypton-087	36	10
Indium-111	49	100	Krypton-088	36	10
Indium-112	49	1000	Lanthanum-131	57	1000
Indium-113m	49	1000	Lanthanum-132	57	100
Indium-114m	49	10	Lanthanum-135	57	1000
Indium-115	49	0.1	Lanthanum-137	57	10

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<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>	<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Lanthanum-138	57	1	Molybdenum-099	42	100
Lanthanum-140	57	10	Molybdenum-101	42	1000
Lanthanum-141	57	1000	Neodymium-136	60	1000
Lanthanum-142	57	100	Neodymium-138	60	1000
Lanthanum-143	57	1000	Neodymium-139	60	1000
Lead-195m	82	1000	Neodymium-139m	60	100
Lead-198	82	100	Neodymium-141	60	1000
Lead-199	82	100	Neodymium-147	60	10
Lead-200	82	100	Neodymium-149	60	100
Lead-201	82	100	Neodymium-151	60	1000
Lead-202	82	1	Neptunium-232	93	1000
Lead-202m	82	10	Neptunium-233	93	1000
Lead-203	82	100	Neptunium-234	93	10
Lead-205	82	100	Neptunium-235	93	1000
Lead-209	82	1000	Neptunium-236 (1.2E 5 yr)	93	0.1
Lead-210	82	0.01	Neptunium-236 (22.5 hours)	93	100
Lead-211	82	100	Neptunium-237	93	0.01
Lead-212	82	10	Neptunium-238	93	10
Lead-214	82	100	Neptunium-239	93	100
Lutetium-169	71	10	Neptunium-240	93	100
Lutetium-170	71	10	Nickel-056	28	10
Lutetium-171	71	10	Nickel-057	28	10
Lutetium-172	71	10	Nickel-059	28	100
Lutetium-173	71	100	Nickel-063	28	100
Lutetium-174	71	10	Nickel-065	28	100
Lutetium-174m	71	10	Nickel-066	28	10
Lutetium-176	71	1	Niobium-088	41	100
Lutetium-176m	71	1000	Niobium-089 (122 minutes)	41	100
Lutetium-177	71	100	Niobium-089 (66 minutes)	41	100
Lutetium-177m	71	10	Niobium-090	41	10
Lutetium-178	71	1000	Niobium-093m	41	100
Lutetium-178m	71	1000	Niobium-094	41	10
Lutetium-179	71	1000	Niobium-095	41	10
Magnesium-028	12	10	Niobium-095m	41	100
Manganese-051	25	1000	Niobium-096	41	10
Manganese-052	25	10	Niobium-097	41	100
Manganese-052m	25	1000	Niobium-098	41	1000
Manganese-053	25	1000	Osmium-180	76	1000
Manganese-054	25	10	Osmium-181	76	100
Manganese-056	25	100	Osmium-182	76	100
Mendelevium-257	101	100	Osmium-185	76	10
Mendelevium-258	101	1	Osmium-189m	76	1000
Mercury-193	80	100	Osmium-191	76	100
Mercury-193m	80	10	Osmium-191m	76	1000
Mercury-194	80	0.1	Osmium-193	76	100
Mercury-195	80	100	Osmium-194	76	1
Mercury-195m	80	100	Palladium-100	46	100
Mercury-197	80	1000	Palladium-101	46	100
Mercury-197m	80	1000	Palladium-103	46	100
Mercury-199m	80	1000	Palladium-107	46	100
Mercury-203	80	10	Palladium-109	46	1000
Molybdenum-090	42	100	Phosphorus-032	15	0.1
Molybdenum-093	42	100	Phosphorus-033	15	1
Molybdenum-093m	42	10	Platinum-186	78	100

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Platinum-188	78	100	Protactinium-230	91	10
Platinum-189	78	100	Protactinium-231	91	0.01
Platinum-191	78	100	Protactinium-232	91	10
Platinum-193	78	1000	Protactinium-233	91	100
Platinum-193m	78	100	Protactinium-234	91	10
Platinum-195m	78	100	Radium-223	88	1
Platinum-197	78	1000	Radium-224	88	10
Platinum-197m	78	1000	Radium-225	88	1
Platinum-199	78	1000	Radium-226	88	0.1
Platinum-200	78	100	Radium-227	88	1000
Plutonium-234	94	1000	Radium-228	88	0.1
Plutonium-235	94	1000	Radon-220	86	0.1
Plutonium-236	94	0.1	Radon-222	86	0.1
Plutonium-237	94	1000	Rhenium-177	75	1000
Plutonium-238	94	0.01	Rhenium-178	75	1000
Plutonium-239	94	0.01	Rhenium-181	75	100
Plutonium-240	94	0.01	Rhenium-182 (12.7 hours)	75	10
Plutonium-241	94	1	Rhenium-182 (64.0 hours)	75	10
Plutonium-242	94	0.01	Rhenium-184	75	10
Plutonium-243	94	1000	Rhenium-184m	75	10
Plutonium-244	94	0.01	Rhenium-186	75	100
Plutonium-245	94	100	Rhenium-186m	75	10
Polonium-203	84	100	Rhenium-187	75	1000
Polonium-205	84	100	Rhenium-188	75	1000
Polonium-207	84	10	Rhenium-188m	75	1000
Polonium-210	84	0.01	Rhenium-189	75	1000
Potassium-040	19	1	Rhodium-099	45	10
Potassium-042	19	100	Rhodium-099m	45	100
Potassium-043	19	10	Rhodium-100	45	10
Potassium-044	19	100	Rhodium-101	45	10
Potassium-045	19	1000	Rhodium-101m	45	100
Praseodymium-136	59	1000	Rhodium-102	45	10
Praseodymium-137	59	1000	Rhodium-102m	45	10
Praseodymium-138m	59	100	Rhodium-103m	45	1000
Praseodymium-139	59	1000	Rhodium-105	45	100
Praseodymium-142	59	100	Rhodium-106m	45	10
Praseodymium-142m	59	1000	Rhodium-107	45	1000
Praseodymium-143	59	10	Rubidium-079	37	1000
Praseodymium-144	59	1000	Rubidium-081	37	100
Praseodymium-145	59	1000	Rubidium-081m	37	1000
Praseodymium-147	59	1000	Rubidium-082m	37	10
Promethium-141	61	1000	Rubidium-083	37	10
Promethium-143	61	100	Rubidium-084	37	10
Promethium-144	61	10	Rubidium-086	37	10
Promethium-145	61	100	Rubidium-087	37	10
Promethium-146	61	10	Rubidium-088	37	1000
Promethium-147	61	10	Rubidium-089	37	1000
Promethium-148	61	10	Ruthenium-094	44	1000
Promethium-148m	61	10	Ruthenium-097	44	100
Promethium-149	61	100	Ruthenium-103	44	10
Promethium-150	61	100	Ruthenium-105	44	100
Promethium-151	61	100	Ruthenium-106	44	1
Protactinium-227	91	100	Samarium-141	62	1000
Protactinium-228	91	10	Samarium-141m	62	1000

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<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>	<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Samarium-142	62	1000	Tantalum-176	73	10
Samarium-145	62	100	Tantalum-177	73	1000
Samarium-146	62	0.01	Tantalum-178	73	1000
Samarium-147	62	0.01	Tantalum-179	73	1000
Samarium-151	62	10	Tantalum-180	73	100
Samarium-153	62	100	Tantalum-180m	73	1000
Samarium-155	62	1000	Tantalum-182	73	10
Samarium-156	62	100	Tantalum-182m	73	1000
Scandium-043	21	1000	Tantalum-183	73	100
Scandium-044	21	100	Tantalum-184	73	10
Scandium-044m	21	10	Tantalum-185	73	1000
Scandium-046	21	10	Tantalum-186	73	1000
Scandium-047	21	100	Technetium-093	43	100
Scandium-048	21	10	Technetium-093m	43	1000
Scandium-049	21	1000	Technetium-094	43	10
Selenium-070	34	1000	Technetium-094m	43	100
Selenium-073	34	10	Technetium-096	43	10
Selenium-073m	34	100	Technetium-096m	43	1000
Selenium-075	34	10	Technetium-097	43	100
Selenium-079	34	10	Technetium-097m	43	100
Selenium-081	34	1000	Technetium-098	43	10
Selenium-081m	34	1000	Technetium-099	43	10
Selenium-083	34	1000	Technetium-099m	43	100
Silicon-031	14	1000	Technetium-101	43	1000
Silicon-032	14	1	Technetium-104	43	1000
Silver-102	47	100	Tellurium-116	52	1000
Silver-103	47	1000	Tellurium-121	52	10
Silver-104	47	1000	Tellurium-121m	52	10
Silver-104m	47	1000	Tellurium-123	52	10
Silver-105	47	10	Tellurium-123m	52	10
Silver-106	47	1000	Tellurium-125m	52	10
Silver-106m	47	10	Tellurium-127	52	1000
Silver-108m	47	10	Tellurium-127m	52	10
Silver-110m	47	10	Tellurium-129	52	1000
Silver-111	47	10	Tellurium-129m	52	10
Silver-112	47	100	Tellurium-131	52	1000
Silver-115	47	1000	Tellurium-131m	52	10
Sodium-022	11	10	Tellurium-132	52	10
Sodium-024	11	10	Tellurium-133	52	1000
Strontium-080	38	100	Tellurium-133m	52	1000
Strontium-081	38	1000	Tellurium-134	52	1000
Strontium-083	38	100	Terbium-147	65	100
Strontium-085	38	10	Terbium-149	65	100
Strontium-085m	38	1000	Terbium-150	65	100
Strontium-087m	38	100	Terbium-151	65	10
Strontium-089	38	10	Terbium-153	65	100
Strontium-090	38	0.1	Terbium-154	65	10
Strontium-091	38	10	Terbium-155	65	100
Strontium-092	38	100	Terbium-156	65	10
Sulfur-035	16	1	Terbium-156m (24.4 hours)	65	1000
Tantalum-172	73	100	Terbium-156m (5.0 hours)	65	1000
Tantalum-173	73	100	Terbium-157	65	100
Tantalum-174	73	100	Terbium-158	65	10
Tantalum-175	73	100	Terbium-160	65	10

**RADIONUCLIDES LISTED UNDER CERCLA**  
**FOR REFERENCE ONLY, NOT FOR REGULATORY COMPLIANCE**  
**SEE 40 CFR PART 302, TABLE 302.4, APPENDIX B, FOR MORE INFORMATION**

<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>	<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Terbium-161	65	100	Uranium-233	92	0.1
Thallium-194	81	1000	Uranium-234	92	0.1
Thallium-194m	81	100	Uranium-235	92	0.1
Thallium-195	81	100	Uranium-236	92	0.1
Thallium-197	81	100	Uranium-237	92	100
Thallium-198	81	10	Uranium-238	92	0.1
Thallium-198m	81	100	Uranium-239	92	1000
Thallium-199	81	100	Uranium-240	92	1000
Thallium-200	81	10	Vanadium-047	23	1000
Thallium-201	81	1000	Vanadium-048	23	10
Thallium-202	81	10	Vanadium-049	23	1000
Thallium-204	81	10	Xenon-120	54	100
Thorium-226	90	100	Xenon-121	54	10
Thorium-227	90	1	Xenon-122	54	100
Thorium-228	90	0.01	Xenon-123	54	10
Thorium-229	90	0.001	Xenon-125	54	100
Thorium-230	90	0.01	Xenon-127	54	100
Thorium-231	90	100	Xenon-129m	54	1000
Thorium-232	90	0.001	Xenon-131m	54	1000
Thorium-234	90	100	Xenon-133	54	1000
Thulium-162	69	1000	Xenon-133m	54	1000
Thulium-166	69	10	Xenon-135	54	100
Thulium-167	69	100	Xenon-135m	54	10
Thulium-170	69	10	Xenon-138	54	10
Thulium-171	69	100	Ytterbium-162	70	1000
Thulium-172	69	100	Ytterbium-166	70	10
Thulium-173	69	100	Ytterbium-167	70	1000
Thulium-175	69	1000	Ytterbium-169	70	10
Tin-110	50	100	Ytterbium-175	70	100
Tin-111	50	1000	Ytterbium-177	70	1000
Tin-113	50	10	Ytterbium-178	70	1000
Tin-117m	50	100	Yttrium-086	39	10
Tin-119m	50	10	Yttrium-086m	39	1000
Tin-121	50	1000	Yttrium-087	39	10
Tin-121m	50	10	Yttrium-088	39	10
Tin-123	50	10	Yttrium-090	39	10
Tin-123m	50	1000	Yttrium-090m	39	100
Tin-125	50	10	Yttrium-091	39	10
Tin-126	50	1	Yttrium-091m	39	1000
Tin-127	50	100	Yttrium-092	39	100
Tin-128	50	1000	Yttrium-093	39	100
Titanium-044	22	1	Yttrium-094	39	1000
Titanium-045	22	1000	Yttrium-095	39	1000
Tungsten-176	74	1000	Zinc-062	30	100
Tungsten-177	74	100	Zinc-063	30	1000
Tungsten-178	74	100	Zinc-065	30	10
Tungsten-179	74	1000	Zinc-069	30	1000
Tungsten-181	74	100	Zinc-069m	30	100
Tungsten-185	74	10	Zinc-071m	30	100
Tungsten-187	74	100	Zinc-072	30	100
Tungsten-188	74	10	Zirconium-086	40	100
Uranium-230	92	1	Zirconium-088	40	10
Uranium-231	92	1000	Zirconium-089	40	100
Uranium-232	92	0.01	Zirconium-093	40	1

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<b>Radionuclide Name</b>	<b>Atomic Number</b>	<b>RQ (curies)</b>
Zirconium-095	40	10
Zirconium-097	40	10

**NOTES:** m - Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.  
Final RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

An adjusted RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in the SARA Title III Consolidated List and this list are in conflict, the lowest RQ applies.

Notification requirements for releases of mixtures or solutions of radionuclides can be found in 40 CFR section 302.6(b).

**RCRA WASTE STREAMS AND UNLISTED HAZARDOUS WASTES**  
**THE DESCRIPTIONS OF THE WASTE STREAMS HAVE BEEN TRUNCATED.**  
**THIS LIST SHOULD BE USED FOR REFERENCE ONLY**  
**COMPLIANCE INFORMATION CAN BE FOUND IN 40 CFR PART 302 AND TABLE 302.4**

RCRA CODE	RQ	NAME
F001	10	The following spent halogenated solvents used in degreasing:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	100	(b) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(c) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	10	(e) Carbon tetrachloride (CAS No. 56-23-5, RCRA Waste No. U211)
	5,000	(f) Chlorinated fluorocarbons
F002	10	The following spent halogenated solvents:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	1,000	(b) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	100	(c) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	100	(e) Chlorobenzene (CAS No. 108-90-7, RCRA Waste No. U037)
	5,000	(f) 1,1,2-Trichloro-1,2,2-trifluoroethane (CAS No. 76-13-1)
	100	(g) o-Dichlorobenzene (CAS No. 95-50-1, RCRA Waste No. U070)
	5,000	(h) Trichlorofluoromethane (CAS No. 75-69-4, RCRA Waste No. U121)
	100	(i) 1,1,2-Trichloroethane (CAS No. 79-00-5, RCRA Waste No. U227)
F003	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Xylene (CAS No. 1330-20-7, RCRA Waste No. U239)
	5,000	(b) Acetone (CAS No. 67-64-1, RCRA Waste No. U002)
	5,000	(c) Ethyl acetate (CAS No. 141-78-6, RCRA Waste No. U112)
	1,000	(d) Ethylbenzene (CAS No. 100-41-4)
	100	(e) Ethyl ether (CAS No. 60-29-7, RCRA Waste No. U117)
	5,000	(f) Methyl isobutyl ketone (CAS No. 108-10-1, RCRA Waste No. U161)
	5,000	(g) n-Butyl alcohol (CAS No. 71-36-3, RCRA Waste No. U031)
	5,000	(h) Cyclohexanone (CAS No. 108-94-1, RCRA Waste No. U057)
	5,000	(i) Methanol (CAS No. 67-56-1, RCRA Waste No. U154)
F004	100	The following spent non-halogenated solvents and still bottoms from recovery:
	100	(a) Cresols/cresylic acid (CAS No. 1319-77-3, RCRA Waste No. U052)
	1,000	(b) Nitrobenzene (CAS No. 98-95-3, RCRA Waste No. U169)
F005	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Toluene (CAS No. 108-88-3, RCRA Waste No. U220)
	5,000	(b) Methyl ethyl ketone (CAS No. 78-93-3, RCRA Waste No. U159)
	100	(c) Carbon disulfide (CAS No. 75-15-0, RCRA Waste No. P022)
	5,000	(d) Isobutanol (CAS No. 78-83-1, RCRA Waste No. U140)
	1,000	(e) Pyridine (CAS No. 110-86-1, RCRA Waste No. U196)
F006	10	Wastewater treatment sludges from electroplating operations (w/some exceptions)
F007	10	Spent cyanide plating bath solns. from electroplating
F008	10	Plating bath residues from electroplating where cyanides are used
F009	10	Spent stripping/cleaning bath solns. from electroplating where cyanides are used
F010	10	Quenching bath residues from metal heat treating where cyanides are used
F011	10	Spent cyanide soln. from salt bath pot cleaning from metal heat treating
F012	10	Quenching wastewater sludges from metal heat treating where cyanides are used
F019	10	Wastewater treatment sludges from chemical conversion aluminum coating

F020	1	Wastes from prod. or use of tri\tetrachlorophenol or derivative intermediates
F021	1	Wastes from prod. or use of pentachlorophenol or intermediates for derivatives
F022	1	Wastes from use of tetra/penta/hexachlorobenzenes under alkaline conditions
F023	1	Wastes from mat. prod. on equip. previously used for tri\tetrachlorophenol
F024	1	Wastes from production of chlorinated aliphatic hydrocarbons (C1-C5)
F025	1	Lights ends, filters from prod. of chlorinated aliphatic hydrocarbons (C1-C5)
F026	1	Waste from equipment previously used to prod. tetra/penta/hexachlorobenzenes
F027	1	Discarded formulations containing tri\tetra/pentachlorophenols or derivatives
F028	1	Residues from incineration of soil contaminated w/ F020,F021,F022,F023,F026,F027
F032	1	Wastewaters, process residuals from wood preserving using chlorophenolic solns.
F034	1	Wastewaters, process residuals from wood preserving using creosote formulations
F035	1	Wastewaters, process residuals from wood preserving using arsenic or chromium
F037	1	Petroleum refinery primary oil/water/solids separation sludge
F038	1	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge
F039	1	Multisource leachate
K001	1	Wastewater treatment sludge from creosote/pentachlorophenol wood preserving
K002	10	Wastewater treatment sludge from prod. of chrome yellow and orange pigments
K003	10	Wastewater treatment sludge from prod. of molybdate orange pigments
K004	10	Wastewater treatment sludge from prod. of zinc yellow pigments
K005	10	Wastewater treatment sludge from prod. of chrome green pigments
K006	10	Wastewater treatment sludge from prod. of chrome oxide green pigments
K007	10	Wastewater treatment sludge from prod. of iron blue pigments
K008	10	Oven residue from prod. of chrome oxide green pigments
K009	10	Dist. bottoms from prod. of acetaldehyde from ethylene
K010	10	Dist. side cuts from prod. of acetaldehyde from ethylene
K011	10	Bottom stream from wastewater stripper in acrylonitrile prod.
K013	10	Bottom stream from acetonitrile column in acrylonitrile prod.
K014	5,000	Bottoms from acetonitrile purification column in acrylonitrile prod.
K015	10	Still bottoms from the dist. of benzyl chloride
K016	1	Heavy ends or dist. residues from prod. of carbon tetrachloride
K017	10	Heavy ends from the purification column in epichlorohydrin prod.
K018	1	Heavy ends from the fractionation column in ethyl chloride prod.
K019	1	Heavy ends from the dist. of ethylene dichloride during its prod.
K020	1	Heavy ends from the dist. of vinyl chloride during prod. of the monomer
K021	10	Aqueous spent antimony catalyst waste from fluoromethanes prod.
K022	1	Dist. bottom tars from prod. of phenol/acetone from cumene
K023	5,000	Dist. light ends from prod. of phthalic anhydride from naphthalene
K024	5,000	Dist. bottoms from prod. of phthalic anhydride from naphthalene
K025	10	Dist. bottoms from prod. of nitrobenzene by nitration of benzene
K026	1,000	Stripping still tails from the prod. of methyl ethyl pyridines
K027	10	Centrifuge/dist. residues from toluene diisocyanate prod.
K028	1	Spent catalyst from hydrochlorinator reactor in prod. of 1,1,1-trichloroethane
K029	1	Waste from product steam stripper in prod. of 1,1,1-trichloroethane
K030	1	Column bottoms/heavy ends from prod. of trichloroethylene and perchloroethylene
K031	1	By-product salts generated in the prod. of MSMA and cacodylic acid
K032	10	Wastewater treatment sludge from the prod. of chlordane
K033	10	Wastewater/scrubwater from chlorination of cyclopentadiene in chlordane prod.
K034	10	Filter solids from filtration of hexachlorocyclopentadiene in chlordane prod.
K035	1	Wastewater treatment sludges from the prod. of creosote
K036	1	Still bottoms from toluene reclamation distillation in disulfoton prod.

K037	1	Wastewater treatment sludges from the prod. of disulfoton
K038	10	Wastewater from the washing and stripping of phorate production
K039	10	Filter cake from filtration of diethylphosphorodithioic acid in phorate prod.
K040	10	Wastewater treatment sludge from the prod. of phorate
K041	1	Wastewater treatment sludge from the prod. of toxaphene
K042	10	Heavy ends/residues from dist. of tetrachlorobenzene in 2,4,5-T prod.
K043	10	2,6-Dichlorophenol waste from the prod. of 2,4-D
K044	10	Wastewater treatment sludge from manuf. and processing of explosives
K045	10	Spent carbon from treatment of wastewater containing explosives
K046	10	Wastewater sludge from manuf.,formulating,loading of lead-based initiating compd
K047	10	Pink/red water from TNT operations
K048	10	Dissolved air flotation (DAF) float from the petroleum refining industry
K049	10	Slop oil emulsion solids from the petroleum refining industry
K050	10	Heat exchanger bundle cleaning sludge from petroleum refining industry
K051	10	API separator sludge from the petroleum refining industry
K052	10	Tank bottoms (leaded) from the petroleum refining industry
K060	1	Ammonia still lime sludge from coking operations
K061	10	Emission control dust/sludge from primary prod. of steel in electric furnaces
K062	10	Spent pickle liquor generated by steel finishing (SIC codes 331 and 332)
K064	10	Acid plant blowdown slurry/sludge from blowdown slurry from primary copper prod.
K065	10	Surface impoundment solids at primary lead smelting facilities
K066	10	Sludge from treatment of wastewater/acid plant blowdown from primary zinc prod.
K069	10	Emission control dust/sludge from secondary lead smelting
K071	1	Brine purification muds from mercury cell process in chlorine production
K073	10	Chlorinated hydrocarbon waste from diaphragm cell process in chlorine production
K083	100	Distillation bottoms from aniline extraction
K084	1	Wastewater sludges from prod. of veterinary pharm. from arsenic compds.
K085	10	Distillation or fractionation column bottoms in prod. of chlorobenzenes
K086	10	Wastes/sludges from prod. of inks from chromium and lead-containing substances
K087	100	Decanter tank tar sludge from coking operations
K088	10	Spent potliners from primary aluminum reduction
K090	10	Emission control dust/sludge from ferrochromiumsilicon prod.
K091	10	Emission control dust/sludge from ferrochromium prod.
K093	5,000	Dist. light ends from prod. of phthalic anhydride by ortho-xylene
K094	5,000	Dist. bottoms in prod. of phthalic anhydride by ortho-xylene
K095	100	Distillation bottoms in prod. of 1,1,1-trichloroethane
K096	100	Heavy ends from dist. column in prod. of 1,1,1-trichloroethane
K097	1	Vacuum stripper discharge from the chlordane chlorinator in prod. of chlordane
K098	1	Untreated process wastewater from the prod. of toxaphene
K099	10	Untreated wastewater from the prod. of 2,4-D
K100	10	Waste leaching soln from emission control dust/sludge in secondary lead smelting
K101	1	Dist. tar residue from aniline in prod. of veterinary pharm. from arsenic compd.
K102	1	Residue from activated carbon in prod. of veterinary pharm. from arsenic compds.
K103	100	Process residues from aniline extraction from the prod. of aniline
K104	10	Combined wastewater streams generated from prod. of nitrobenzene/aniline
K105	10	Aqueous stream from washing in prod. of chlorobenzenes
K106	1	Wastewater treatment sludge from mercury cell process in chlorine prod.
K107	10	Column bottoms from separation in prod. of UDMH from carboxylic acid hydrazides
K108	10	Condensed column overheads and vent gas from prod. of UDMH from -COOH hydrazides
K109	10	Spent filter cartridges from purif. of UDMH prod. from carboxylic acid hydrazides

K110	10	Condensed column overheads from separation in UDMH prod. from -COOH hydrazides
K111	10	Product washwaters from prod. of dinitrotoluene via nitration of toluene
K112	10	Reaction by-product water from drying in toluediamine prod from dinitrotoluene
K113	10	Condensed liquid light ends from purification of toluediamine during its prod.
K114	10	Vicinals from purification of toluediamine during its prod from dinitrotoluene
K115	10	Heavy ends from toluediamine purification during prod. from dinitrotoluene
K116	10	Organic condensate from solvent recovery system in prod. of toluene diisocyanate
K117	1	Wastewater from vent gas scrubber in ethylene bromide prod by ethene bromination
K118	1	Spent absorbent solids in purification of ethylene dibromide in its prod.
K123	10	Process waterwater from the prod. of ethylenebisdithiocarbamic acid and salts
K124	10	Reactor vent scrubber water from prod of ethylenebisdithiocarbamic acid and salts
K125	10	Filtration/other solids from prod. of ethylenebisdithiocarbamic acid and salts
K126	10	Dust/sweepings from the prod. of ethylenebisdithiocarbamic acid and salts
K131	100	Wastewater and spent sulfuric acid from the prod. of methyl bromide
K132	1,000	Spent absorbent and wastewater solids from the prod. of methyl bromide
K136	1	Still bottoms from ethylene dibromide purif. in prod. by ethene bromination
K141	1	Process residues from coal tar recovery in coking
K142	1	Tar storage tank residues from coke prod. from coal or recovery of coke by-prods
K143	1	Process residues from recovery of light oil in coking
K144	1	Wastewater residues from light oil refining in coking
K145	1	Residues from naphthalene collection and recovery from coke by-products
K147	1	Tar storage tank residues from coal tar refining in coking
K148	1	Residues from coal tar distillation, including still bottoms, in coking
K149	10	Distillation bottoms from the prod. of chlorinated toluenes/benzoyl chlorides
K150	10	Organic residuals from Cl gas and HCl recovery from chlorinated toluene prod.
K151	10	Wastewater treatment sludge from production of chlorotoluenes/benzoyl chlorides
K156	1*	Organic waste from production of carbamates and carbamoyl oximes
K157	1*	Wastewaters from production of carbamates and carbamoyl oximes (not sludges)
K158	1*	Bag house dusts & filter/separation solids from prod of carbamates, carb oximes
K159	1*	Organics from treatment of thiocarbamate waste
K161	1*	Purif. solids/bag house dust/sweepings from prod of dithiocarbamate acids/salts
K169	10	Crude oil storage tank sediment from refining operations
K170	1	Clarified slurry oil tank sediment of in-line filter/separation solids
K171	1	Spent hydrotreating catalyst
K172	1	Spent hydrorefining catalyst
K174	1	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (EDC/VCM)
K175	1	Wastewater treatment sludges from the production vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process
D001	100	Unlisted hazardous wastes characteristic of ignitability
D002	100	Unlisted hazardous wastes characteristic of corrosivity
D003	100	Unlisted hazardous wastes characteristic of reactivity
		Unlisted hazardous wastes characteristic of toxicity:
D004	1	Arsenic
D005	1,000	Barium
D006	10	Cadmium
D007	10	Chromium
D008	10	Lead
D009	1	Mercury
D010	10	Selenium

D011	1	Silver
D012	1	Endrin
D013	1	Lindane
D014	1	Methoxychlor
D015	1	Toxaphene
D016	100	2,4-D
D017	100	2,4,5-TP
D018	10	Benzene
D019	10	Carbon tetrachloride
D020	1	Chlordane
D021	100	Chlorobenzene
D022	10	Chloroform
D023	100	o-Cresol
D024	100	m-Cresol
D025	100	p-Cresol
D026	100	Cresol
D027	100	1,4-Dichlorobenzene
D028	100	1,2-Dichloroethane
D029	100	1,1-Dichloroethylene
D030	10	2,4-Dinitrotoluene
D031	1	Heptachlor (and epoxide)
D032	10	Hexachlorobenzene
D033	1	Hexachlorobutadiene
D034	100	Hexachloroethane
D035	5,000	Methyl ethyl ketone
D036	1,000	Nitrobenzene
D037	10	Pentachlorophenol
D038	1,000	Pyridine
D039	100	Tetrachloroethylene
D040	100	Trichloroethylene
D041	10	2,4,5-Trichlorophenol
D042	10	2,4,6-Trichlorophenol
D043	1	Vinyl chloride

## **Appendix D**

### **Best Management Practices**

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Loading and Unloading Areas for Liquid or Solid Material**

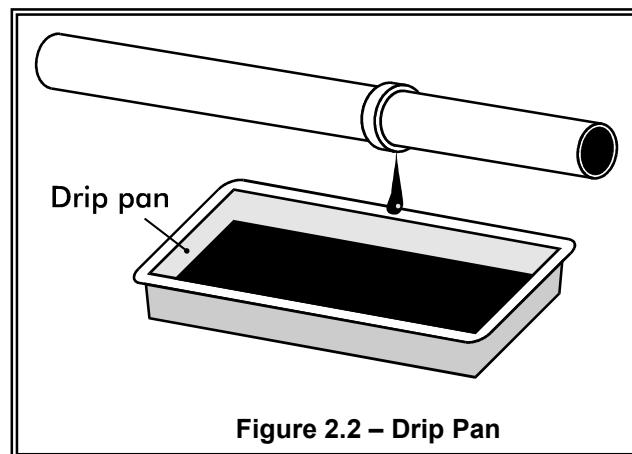
**Description of Pollutant Sources:** Loading/unloading of liquid and solid materials at industrial and commercial facilities are typically conducted at shipping and receiving, outside storage, fueling areas, etc. Materials transferred can include products, raw materials, intermediate products, waste materials, fuels, scrap metals, etc. Leaks and spills of fuels, oils, powders, organics, heavy metals, salts, acids, alkalis, etc. during transfer are potential causes of stormwater contamination. Spills from hydraulic line breaks are a common problem at loading docks.

**Pollutant Control Approach:** Cover and contain the loading/ unloading area where necessary to prevent run-on of stormwater and runoff of contaminated stormwater.

### **Applicable Operational BMPs:**

#### *At All Loading/ Unloading Areas:*

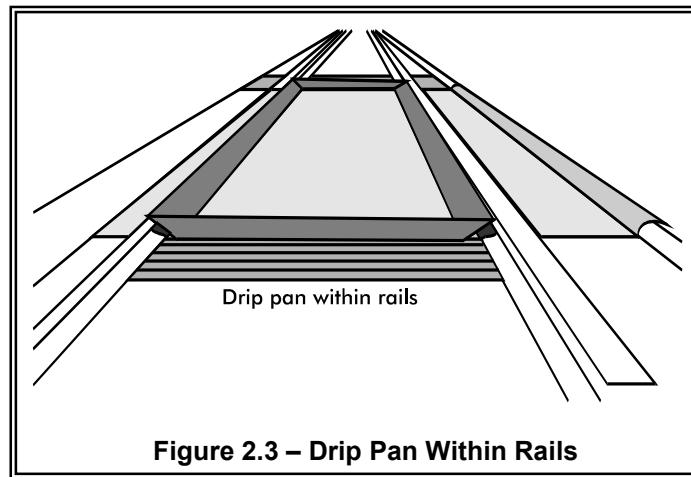
- A significant amount of debris can accumulate at outside, uncovered loading/unloading areas. Sweep these surfaces frequently to remove material that could otherwise be washed off by stormwater. Sweep outside areas that are covered for a period of time by containers, logs, or other material after the areas are cleared.
- Place drip pans, or other appropriate temporary containment device, at locations where leaks or spills may occur such as hose connections, hose reels and filler nozzles. Drip pans shall always be used when making and breaking connections (see Figure 2.2). Check loading/ unloading equipment such as valves, pumps, flanges, and connections regularly for leaks and repair as needed.



***At Tanker Truck and Rail Transfer Areas to Above/Below-ground Storage Tanks:***

- To minimize the risk of accidental spillage, prepare an "Operations Plan" that describes procedures for loading/unloading. Train the employees, especially fork lift operators, in its execution and post it or otherwise have it readily available to employees.
- Report spills of reportable quantities to Ecology (refer to Section 2.1 for telephone numbers of Ecology Regional Offices).
- Prepare and implement an Emergency Spill Cleanup Plan for the facility (BMP Spills of Oil and Hazardous Substances) which includes the following BMPs:
  - Ensure the clean up of liquid/solid spills in the loading/ unloading area immediately, if a significant spill occurs, and, upon completion of the loading/unloading activity, or, at the end of the working day.
  - Retain and maintain an appropriate oil spill cleanup kit on-site for rapid cleanup of material spills. (See BMP Spills of Oil and Hazardous Substances).
  - Ensure that an employee trained in spill containment and cleanup is present during loading/unloading.

***At Rail Transfer Areas to Above/below-ground Storage Tanks:*** Install a drip pan system as illustrated (see Figure 2.3) within the rails to collect spills/leaks from tank cars and hose connections, hose reels, and filler nozzles.



**Figure 2.3 – Drip Pan Within Rails**

***Loading/Unloading from/to Marine Vessels:*** Facilities and procedures for the loading or unloading of petroleum products must comply with Coast Guard requirements specified in Appendix IV-D R.5.

**Transfer of Small Quantities from Tanks and Containers:** Refer to BMPs Storage of Liquids in Permanent Above-Ground Tanks, and Storage of Liquid, Food Waste, or Dangerous Waste Containers, for requirements on the transfer of small quantities from tanks and containers, respectively.

**Applicable Structural Source Control BMPs:**

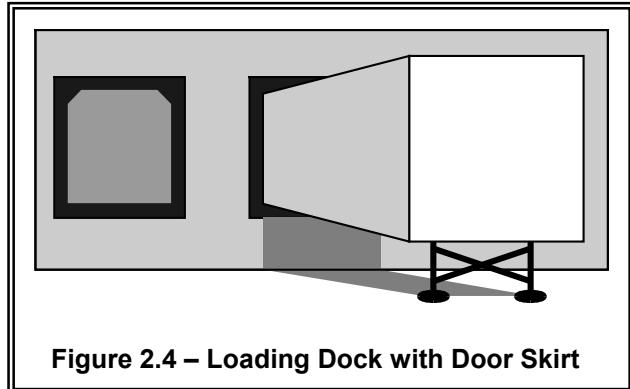
**At All Loading/ Unloading Areas:**

- Consistent with Uniform Fire Code requirements (Appendix IV-D R.2) and to the extent practicable, conduct unloading or loading of solids and liquids in a manufacturing building, under a roof, or lean-to, or other appropriate cover.
- Berm, dike, and/or slope the loading/unloading area to prevent run-on of stormwater and to prevent the runoff or loss of any spilled material from the area.
- Large loading areas frequently are not curbed along the shoreline. As a result, stormwater passes directly off the paved surface into surface water. Place curbs along the edge, or slope the edge such that the stormwater can flow to an internal storm drain system that leads to an approved treatment BMP.
- Pave and slope loading/unloading areas to prevent the pooling of water. The use of catch basins and drain lines within the interior of the paved area must be minimized as they will frequently be covered by material, or they should be placed in designated “alleyways” that are not covered by material, containers or equipment.

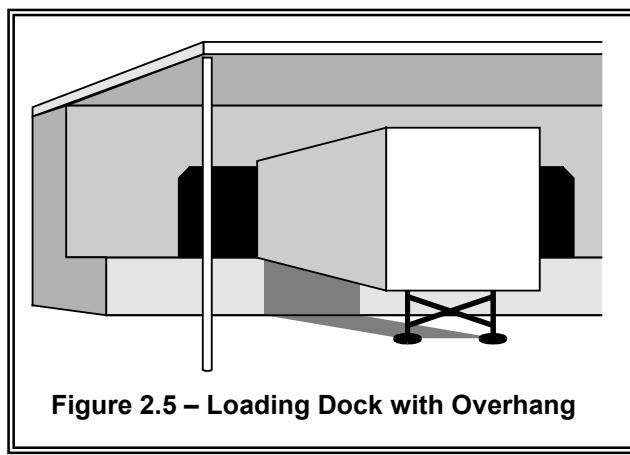
**Recommended Structural Source Control BMP:** For the transfer of pollutant liquids in areas that cannot contain a catastrophic spill, install an automatic shutoff system in case of unanticipated off-loading interruption (e.g. coupling break, hose rupture, overfill, etc.).

**At Loading and Unloading Docks:**

- Install/maintain overhangs, or door skirts that enclose the trailer end (see Figures 2.4 and 2.5) to prevent contact with rainwater.
- Design the loading/unloading area with berms, sloping, etc. to prevent the run-on of stormwater.
- Retain on-site the necessary materials for rapid cleanup of spills.



**Figure 2.4 – Loading Dock with Door Skirt**



**Figure 2.5 – Loading Dock with Overhang**

***At Tanker Truck Transfer Areas to Above/Below-Ground Storage Tanks:***

- Pave the area on which the transfer takes place. If any transferred liquid, such as gasoline, is reactive with asphalt pave the area with Portland cement concrete.
- Slope, berm, or dike the transfer area to a dead-end sump, spill containment sump, a spill control (SC) oil/water separator, or other spill control device. The minimum spill retention time should be 15 minutes at the greater flow rate of the highest fuel dispenser nozzle through-put rate, or the peak flow rate of the 6-month, 24-hour storm event over the surface of the containment pad, whichever is greater. The volume of the spill containment sump should be a minimum of 50 gallons with an adequate grit sedimentation volume.

## **Best Management Practice**

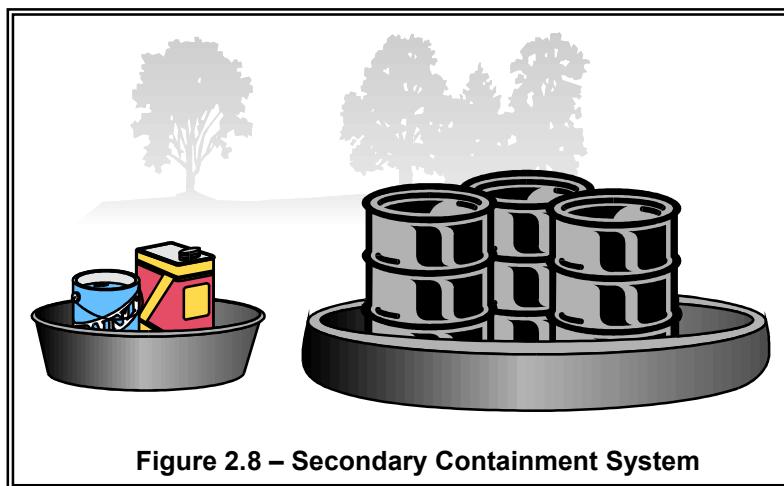
*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Storage of Liquid, Food Waste, or Dangerous Waste Containers**

**Description of Pollutant Sources:** Steel and plastic drums with volumetric capacities of 55 gallons or less are typically used at industrial facilities for container storage of liquids and powders. The BMPs specified below apply to container(s) located outside a building used for temporary storage of accumulated food wastes, vegetable or animal grease, used oil, liquid feedstock or cleaning chemical, or Dangerous Wastes (liquid or solid) unless the business is permitted by Ecology to store the wastes (Appendix IV-D R.4). Leaks and spills of pollutant materials during handling and storage are the primary sources of pollutants. Oil and grease, acid/alkali pH, BOD, COD are potential pollutant constituents.

**Pollutant Control Approach:** Store containers in impervious containment under a roof or other appropriate cover, or in a building. For roll-containers (for example, dumpsters) that are picked up directly by the collection truck, a filet can be placed on both sides of the curb to facilitate moving the dumpster. If a storage area is to be used on-site for less than 30 days, a portable temporary secondary system like that shown in Figure 2.8 can be used in lieu of a permanent system as described above.

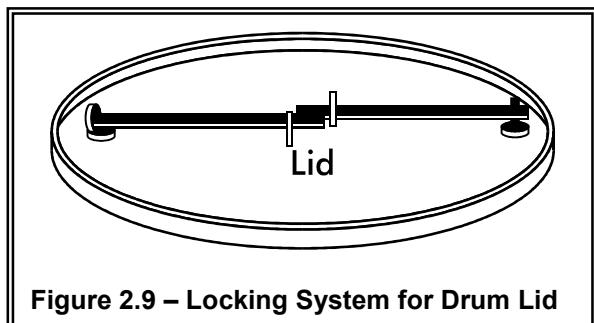


**Figure 2.8 – Secondary Containment System**

### **Applicable Operational BMPs:**

- Place tight-fitting lids on all containers.
- Place drip pans beneath all mounted container taps and at all potential drip and spill locations during filling and unloading of containers.
- Inspect container storage areas regularly for corrosion, structural failure, spills, leaks, overfills, and failure of piping systems. Check containers daily for leaks/spills. Replace containers, and replace and tighten bungs in drums as needed.
- Businesses accumulating Dangerous Wastes that do not contain free liquids need only to store these wastes in a sloped designated area with the containers elevated or otherwise protected from storm water run-on.

- Drums stored in an area where unauthorized persons may gain access must be secured in a manner that prevents accidental spillage, pilferage, or any unauthorized use (see Figure 2.9).

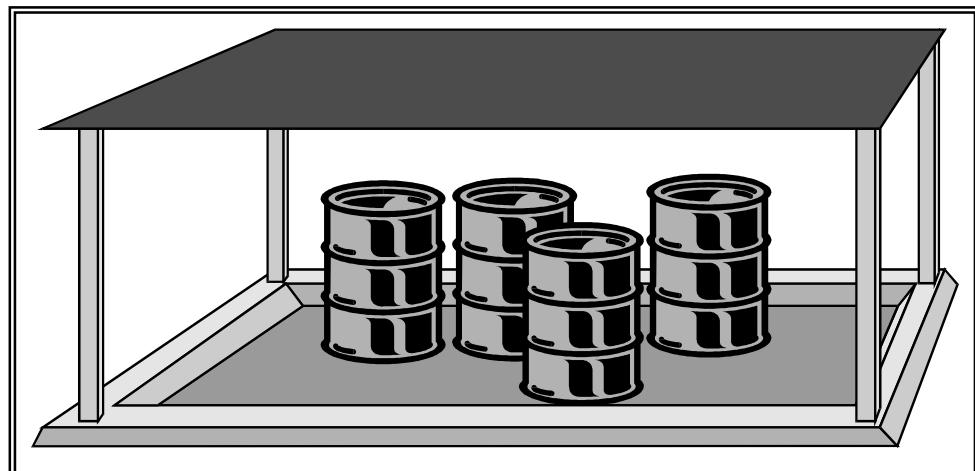


**Figure 2.9 – Locking System for Drum Lid**

- If the material is a Dangerous Waste, the business owner must comply with any additional Ecology requirements as specified in Appendix IV-D R.3.
- Storage of reactive, ignitable, or flammable liquids must comply with the Uniform Fire Code (Appendix IV-D R.2).
- Cover dumpsters, or keep them under cover such as a lean-to, to prevent the entry of stormwater. Replace or repair leaking garbage dumpsters.
- Drain dumpsters and/or dumpster pads to sanitary sewer. Keep dumpster lids closed. Install waterproof liners.

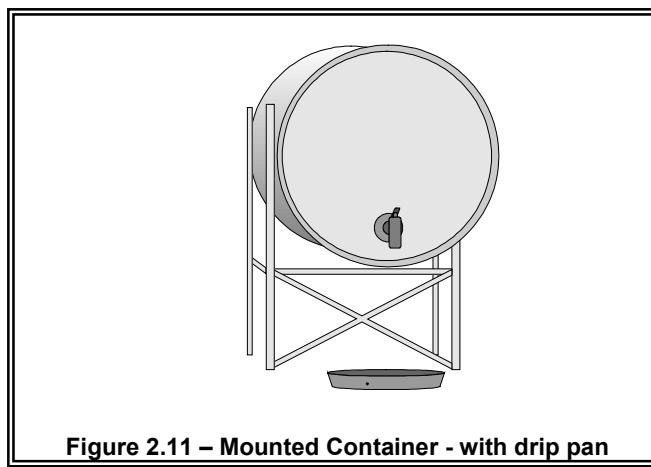
#### **Applicable Structural Source Control BMPs:**

- Keep containers with Dangerous Waste, food waste, or other potential pollutant liquids inside a building unless this is impracticable due to site constraints or Uniform Fire Code requirements.
- Store containers in a designated area, which is covered, bermed or diked, paved and impervious in order to contain leaks and spills (see Figure 2.10). The secondary containment shall be sloped to drain into a dead-end sump for the collection of leaks and small spills.
- For liquid wastes, surround the containers with a dike as illustrated in Figure 2.10. The dike must be of sufficient height to provide a volume of either 10 percent of the total enclosed container volume or 110 percent of the volume contained in the largest container, whichever is greater, or, if a single container, 110 percent of the volume of that container.



**Figure 2.10 – Covered and Bermed Containment Area**

- Where material is temporarily stored in drums, a containment system can be used as illustrated, in lieu of the above system (see Figure 2.8).
- Place containers mounted for direct removal of a liquid chemical for use by employees inside a containment area as described above. Use a drip pan during liquid transfer (see Figure 2.11).



**Figure 2.11 – Mounted Container - with drip pan**

#### **Applicable Treatment BMP:**

*Note that a treatment BMP is applicable for contaminated stormwater from drum storage areas.*

- For contaminated stormwater in the containment area, connect the sump outlet to a sanitary sewer, if approved by the local Sewer Authority, or to appropriate treatment such as an API or CP oil/water separator, catch basin filter or other appropriate system (see Volume V). Equip the sump outlet with a normally closed valve to prevent the release of spilled or leaked liquids, especially flammables (compliance with Fire Codes), and dangerous liquids. This valve may be opened only for the conveyance of contaminated stormwater to treatment.
- Another option for discharge of contaminated stormwater is to pump it from a dead-end sump or catchment to a tank truck or other appropriate vehicle for off-site treatment and/or disposal.

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Storage of Liquids in Permanent Above-ground Tanks**

**Description of Pollutant Sources:** Above-ground tanks containing liquids (excluding uncontaminated water) may be equipped with a valved drain, vent, pump, and bottom hose connection. They may be heated with steam heat exchangers equipped with steam traps. Leaks and spills can occur at connections and during liquid transfer. Oil and grease, organics, acids, alkalis, and heavy metals in tank water and condensate drainage can also cause stormwater contamination at storage tanks.

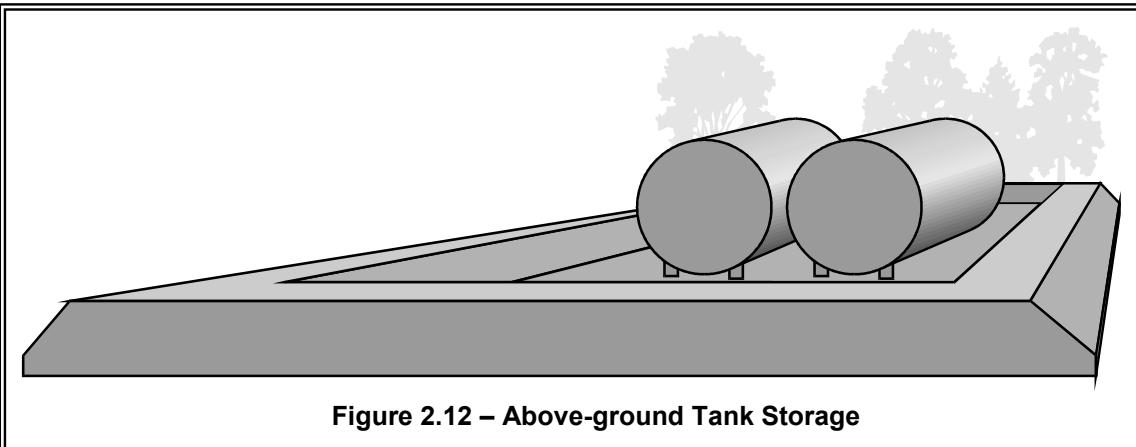
**Pollutant Control Approach:** Install secondary containment or a double-walled tank. Slope the containment area to a drain with a sump. Stormwater collected in the containment area may need to be discharged to treatment such as an API or CP oil/water separator, or equivalent BMP. Add safeguards against accidental releases including protective guards around tanks to protect against vehicle or forklift damage, and tagging valves to reduce human error. *Tank water and condensate discharges are process wastewater that may need an NPDES Permit.*

### **Applicable Operational BMPs:**

- Inspect the tank containment areas regularly to identify problem components such as fittings, pipe connections, and valves, for leaks/spills, cracks, corrosion, etc.
- Place adequately sized drip pans beneath all mounted taps and drip/spill locations during filling/unloading of tanks. Valved drain tubing may be needed in mounted drip pans.
- Sweep and clean the tank storage area regularly, if paved.
- Replace or repair tanks that are leaking, corroded, or otherwise deteriorating.
- All installations shall comply with the Uniform Fire Code (Appendix IV-D R.2) and the National Electric Code.

### **Applicable Structural Source Control BMPs:**

- Locate permanent tanks in impervious (Portland cement concrete or equivalent) secondary containment surrounded by dikes as illustrated in Figure 2.12, or UL Approved double-walled. The dike must be of sufficient height to provide a containment volume of either 10 percent of the total enclosed tank volume or 110 percent of the volume contained in the largest tank, whichever is greater, or, if a single tank, 110 percent of the volume of that tank.
- Slope the secondary containment to drain to a dead-end sump (optional), or equivalent, for the collection of small spills.
- Include a tank overfill protection system to minimize the risk of spillage during loading.



**Figure 2.12 – Above-ground Tank Storage**

*Note the applicable treatment BMP for stormwater from petroleum tank farms.*

**Applicable Treatment BMPs:**

- If the tank containment area is uncovered, equip the outlet from the spill-containment sump with a shutoff valve, which is normally closed and may be opened, manually or automatically, only to convey contaminated stormwater to approved treatment or disposal, or to convey uncontaminated stormwater to a storm drain. Evidence of contamination can include the presence of visible sheen, color, or turbidity in the runoff, or existing or historical operational problems at the facility. Simple pH measurements with litmus or pH paper can be used for areas subject to acid or alkaline contamination.
- At petroleum tank farms, convey stormwater contaminated with floating oil or debris in the contained area through an API or CP-type oil/water separator (Volume V, Treatment BMPs), or other approved treatment prior to discharge to storm drain or surface water.

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

**BMPs for Storage or Transfer (Outside) of Solid Raw Materials, By-Products, or Finished Products**

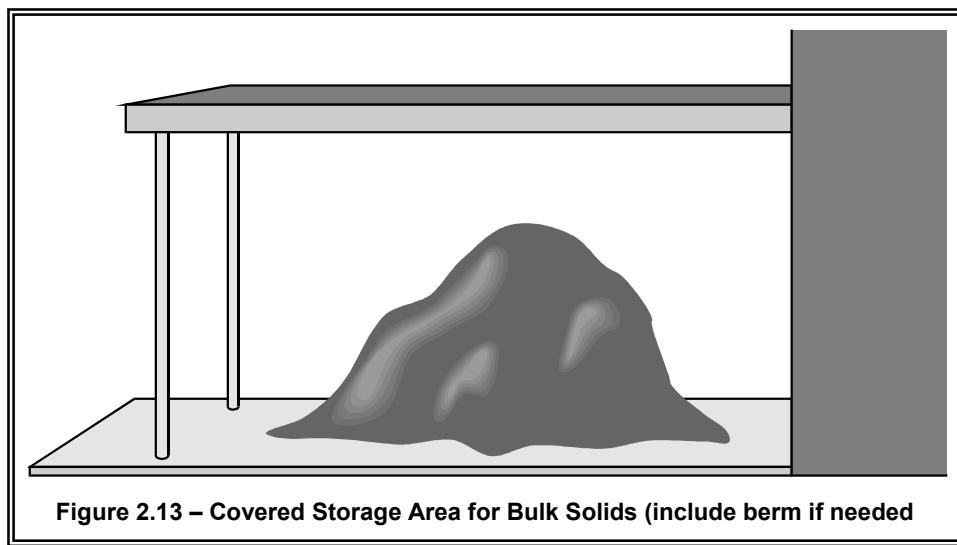
**Description of Pollutant Sources:** Solid raw materials, by-products, or products such as gravel, sand, salts, topsoil, compost, logs, sawdust, wood chips, lumber and other building materials, concrete, and metal products sometimes are typically stored outside in large piles, stacks, etc. at commercial or industrial establishments. Contact of outside bulk materials with stormwater can cause leachate, and erosion of the stored materials. Contaminants include TSS, BOD, organics, and dissolved salts (sodium, calcium, and magnesium chloride, etc).

**Pollutant Control Approach:** Provide impervious containment with berms, dikes, etc. and/or cover to prevent run-on and discharge of leachate pollutant(s) and TSS.

**Applicable Operational BMP:** Do not hose down the contained stockpile area to a storm drain or a conveyance to a storm drain or to a receiving water.

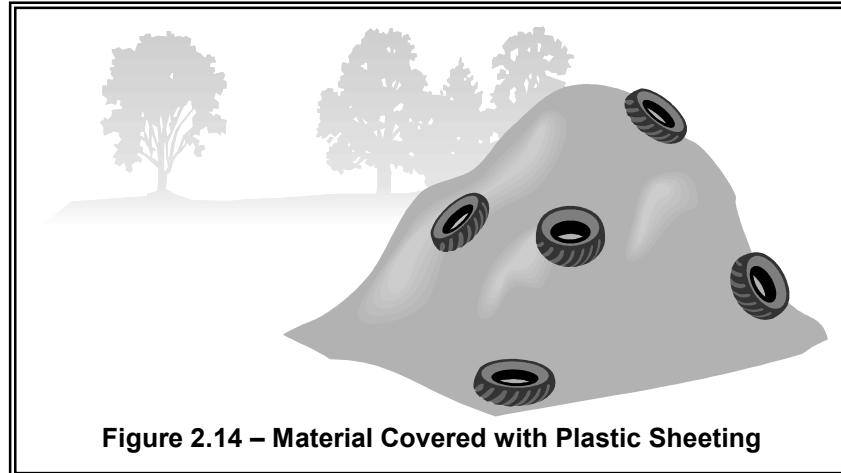
**Applicable Structural Source Control BMP Options:** Choose one or more of the source control BMP options listed below for stockpiles greater than 5 cubic yards of erodible or water soluble materials such as soil, road deicing salts, compost, unwashed sand and gravel, sawdust, etc. Also included are outside storage areas for solid materials such as logs, bark, lumber, metal products, etc.

- Store in a building or paved and bermed covered area as shown in Figure 2.13, or;



**Figure 2.13 – Covered Storage Area for Bulk Solids (include berm if needed)**

- Place temporary plastic sheeting (polyethylene, polypropylene, hypalon, or equivalent) over the material as illustrated (see Figure 2.14), or;



**Figure 2.14 – Material Covered with Plastic Sheeting**

- Pave the area and install a stormwater drainage system. Place curbs or berms along the perimeter of the area to prevent the run-on of uncontaminated stormwater and to collect and convey runoff to treatment. Slope the paved area in a manner that minimizes the contact between stormwater (e.g., pooling) and leachable materials in compost, logs, bark, wood chips, etc.
- For large stockpiles that cannot be covered, implement containment practices at the perimeter of the site and at any catch basins as needed to prevent erosion and discharge of the stockpiled material offsite or to a storm drain. Ensure that contaminated stormwater is not discharged directly to catch basins without conveying through a treatment BMP.

**Applicable Treatment BMP:** Convey contaminated stormwater from the stockpile area to a wet pond, wet vault, settling basin, media filter, or other appropriate treatment system depending on the contamination.

**Recommended Additional Operational BMPs:**

- Maintain drainage areas in and around storage of solid materials with a minimum slope of 1.5 percent to prevent pooling and minimize leachate formation. Areas should be sloped to drain stormwater to the perimeter where it can be collected, or to internal drainage “alleyways” where material is not stockpiled.
- Sweep paved storage areas regularly for collection and disposal of loose solid materials.
- If and when feasible, collect and recycle water-soluble materials (leachates) to the stockpile.
- Stock cleanup materials, such as brooms, dustpans, and vacuum sweepers near the storage area.

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Fueling At Dedicated Stations**

**Description of Pollutant Sources:** A fueling station is a facility dedicated to the transfer of fuels from a stationary pumping station to mobile vehicles or equipment. It includes above or under-ground fuel storage facilities. In addition to general service gas stations, fueling may also occur at 24-hour convenience stores, construction sites, warehouses, car washes, manufacturing establishments, port facilities, and businesses with fleet vehicles. Typically, stormwater contamination at fueling stations is caused by leaks/spills of fuels, lube oils, radiator coolants, and vehicle washwater.

**Pollutant Control Approach:** New or substantially remodeled\* fueling stations must be constructed on an impervious concrete pad under a roof to keep out rainfall and stormwater run-on. A treatment BMP must be used for contaminated stormwater and wastewaters in the fueling containment area.

*\* Substantial remodeling includes replacing the canopy, or relocating or adding one or more fuel dispensers in such a way that the Portland cement concrete (or equivalent) paving in the fueling area is modified.*

### **For new or substantially remodeled Fueling Stations:**

#### **Applicable Operational BMPs:**

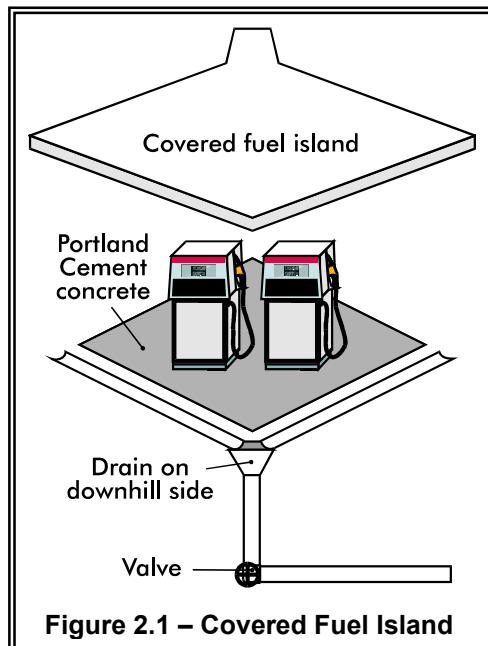
- Prepare an emergency spill response and cleanup plan (per BMPs for Spills of Oil and Hazardous Substances) and have designated trained person(s) available either on site or on call at all times to promptly and properly implement that plan and immediately cleanup all spills. Keep suitable cleanup materials, such as dry adsorbent materials, on site to allow prompt cleanup of a spill.
- Train employees on the proper use of fuel dispensers. Post signs in accordance with the Uniform Fire Code (UFC). Post “No Topping Off” signs (topping off gas tanks causes spillage and vents gas fumes to the air). Make sure that the automatic shutoff on the fuel nozzle is functioning properly.
- The person conducting the fuel transfer must be present at the fueling pump during fuel transfer, particularly at unattended or self-serve stations.
- Keep drained oil filters in a suitable container or drum.

#### **Applicable Structural Source Control BMPs:**

- Design the fueling island to control spills (dead-end sump or spill control separator in compliance with the UFC), and to treat collected stormwater and/or wastewater to required levels. Slope the concrete containment pad around the fueling island toward drains; either trench drains, catch basins and/or a dead-end sump. The slope of the drains shall not be less than 1 percent (Section 7901.8 of the UFC). Drains to

treatment shall have a shutoff valve, which must be closed in the event of a spill. The spill control sump must be sized in compliance with Section 7901.8 of the UFC; or

- Design the fueling island as a spill containment pad with a sill or berm raised to a minimum of four inches (Section 7901.8 of the UFC) to prevent the runoff of spilled liquids and to prevent run-on of stormwater from the surrounding area. Raised sills are not required at the open-grate trenches that connect to an approved drainage-control system.
- The fueling pad must be paved with Portland cement concrete, or equivalent. Asphalt is not considered an equivalent material.
- The fueling island must have a roof or canopy to prevent the direct entry of precipitation onto the spill containment pad (see Figure 2.1). The roof or canopy should, at a minimum, cover the spill containment pad (within the grade break or fuel dispensing area) and preferably extend several additional feet to reduce the introduction of windblown rain. Convey all roof drains to storm drains outside the fueling containment area.



**Figure 2.1 – Covered Fuel Island**

- Stormwater collected on the fuel island containment pad must be conveyed to a sanitary sewer system, if approved by the sanitary authority; or to an approved treatment system such as an oil/water separator and a basic treatment BMP. (Basic treatment BMPs are listed in Volume V and include media filters and biofilters) Discharges from treatment systems to storm drains or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain greater than a significant amount of oil and grease.

- Alternatively, stormwater collected on the fuel island containment pad may be collected and held for proper off site disposal.
- Conveyance of any fuel-contaminated stormwater to a sanitary sewer must be approved by the local sewer authority and must comply with pretreatment regulations (WAC 173-216-060). These regulations prohibit discharges that could "cause fire or explosion. An explosive or flammable mixture is defined under state and federal pretreatment regulations, based on a flash point determination of the mixture. If contaminated stormwater is determined not to be explosive, then it could be conveyed to a sanitary sewer system.
- Transfer the fuel from the delivery tank trucks to the fuel storage tank in impervious contained areas and ensure that appropriate overflow protection is used. Alternatively, cover nearby storm drains during the filling process and use drip pans under all hose connections.

### **Additional BMP for Vehicles 10 feet in height or greater**

A roof or canopy may not be practicable at fueling stations that regularly fuel vehicles that are 10 feet in height or greater, particularly at industrial or WSDOT sites. At those types of fueling facilities, the following BMPs apply, as well as the applicable BMPs and fire prevention (UFC requirements) of this BMP for fueling stations:

- If a roof or canopy is impractical the concrete fueling pad must be equipped with emergency spill control, which includes a shutoff valve for the drainage from the fueling area. The valve must be closed in the event of a spill. An electronically actuated valve is preferred to minimize the time lapse between spill and containment. Spills must be cleaned up and disposed off-site in accordance with BMPs for Spills of Oil and Hazardous Substances.
- The valve may be opened to convey contaminated stormwater to a sanitary sewer, if approved by the sewer authority, or to oil removal treatment such as an API or CP oil/water separator, catchbasin insert, or equivalent treatment, and then to a basic treatment BMP. Discharges from treatment systems to storm drains or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain greater than a significant amount of oil and grease.

An explosive or flammable mixture is defined under state and federal pretreatment regulations, based on a flash point determination of the mixture. If contaminated stormwater is determined not to be explosive or then it could be conveyed to a sanitary sewer system.

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Maintenance and Repair of Vehicles and Equipment**

**Description of Pollutant Sources:** Pollutant sources include parts/vehicle cleaning, spills/leaks of fuel and other liquids, replacement of liquids, outdoor storage of batteries/liquids/parts, and vehicle parking.

**Pollutant Control Approach:** Control of leaks and spills of fluids using good housekeeping and cover and containment BMPs.

### **Applicable Operational BMPs:**

- Inspect for leaks all incoming vehicles, parts, and equipment stored temporarily outside.
- Use drip pans or containers under parts or vehicles that drip or that are likely to drip liquids, such as during dismantling of liquid containing parts or removal or transfer of liquids.
- Remove batteries and liquids from vehicles and equipment in designated areas designed to prevent stormwater contamination. Store cracked batteries in a covered non-leaking secondary containment system.
- Empty oil and fuel filters before disposal. Provide for proper disposal of waste oil and fuel.
- Do not pour/convey washwater, liquid waste, or other pollutant into storm drains or to surface water. Check with the local sanitary sewer authority for approval to convey to a sanitary sewer.
- Do not connect maintenance and repair shop floor drains to storm drains or to surface water. To allow for snowmelt during the winter a drainage trench with a sump for particulate collection can be installed and used only for draining the snowmelt and not for discharging any vehicular or shop pollutants.

### **Applicable Structural Source Control BMPs:**

- Conduct all maintenance and repair of vehicles and equipment in a building, or other covered impervious containment area that is sloped to prevent run-on of uncontaminated stormwater and runoff of contaminated stormwater.
- The maintenance of refrigeration engines in refrigerated trailers may be conducted in the parking area with due caution to avoid the release of engine or refrigeration fluids to storm drains or surface water.
- Park large mobile equipment, such as log stackers, in a designated contained area.

**For additional applicable BMPs** refer to the following BMPs: Fueling at Dedicated Stations; Washing and Steam Cleaning Vehicle/Equipment/Building Structures; Loading and Unloading Areas for Liquid or Solid Material; Storage of Liquids in Permanent Above-Ground Tanks; Storage of Liquid, Food Waste, or Dangerous Waste Containers;

Storage or Transfer (Outside) of Solid Raw Materials, By-Products, or Finished Products; Spills of Oil and Hazardous Substances; Illicit Connections to Storm Drains; and other BMPs provided in this chapter.

*Note that a treatment BMP is applicable for contaminated stormwater.*

**Applicable Treatment BMPs:** Contaminated stormwater runoff from vehicle staging and maintenance areas must be conveyed to a sanitary sewer, if allowed by the local sewer authority, or to an API or CP oil and water separator followed by a basic treatment BMP (See Volume V), applicable filter, or other equivalent oil treatment system.

**Recommended Additional Operational BMPs:**

- Consider storing damaged vehicles inside a building or other covered containment, until all liquids are removed. Remove liquids from vehicles retired for scrap.
- Clean parts with aqueous detergent based solutions or non-chlorinated solvents such as kerosene or high flash mineral spirits, and/or use wire brushing or sand blasting whenever practicable. Avoid using toxic liquid cleaners such as methylene chloride, 1,1,1-trichloroethane, trichloroethylene or similar chlorinated solvents. Choose cleaning agents that can be recycled.
- Inspect all BMPs regularly, particularly after a significant storm. Identify and correct deficiencies to ensure that the BMPs are functioning as intended.
- Avoid hosing down work areas. Use dry methods for cleaning leaked fluids.
- Recycle greases, used oil, oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic fluids, transmission fluids, and engine oils (see Appendix IV-C).
- Do not mix dissimilar or incompatible waste liquids stored for recycling.

## **Best Management Practice**

*From* **Stormwater Management Manual for Western Washington-**  
**Volume IV: Source Control BMPs**

Washington State Department of Ecology,  
August 2001 (Ecology Publication No. 99-14)

## **BMPs for Parking and Storage of Vehicles and Equipment**

**Description of Pollutant Sources:** Public and commercial parking lots such as retail store, fleet vehicle (including rent-a-car lots and car dealerships), equipment sale and rental parking lots, and parking lot driveways, can be sources of toxic hydrocarbons and other organic compounds, oils and greases, metals, and suspended solids caused by the parked vehicles.

**Pollutant Control Approach:** If the parking lot is a **high-use site** as defined below, provide appropriate oil removal equipment for the contaminated stormwater runoff.

### **Applicable Operational BMPs:**

- If washing of a parking lot is conducted, discharge the washwater to a sanitary sewer, if allowed by the local sewer authority, or other approved wastewater treatment system, or collect it for off-site disposal.
- Do not hose down the area to a storm drain or to a receiving water. Sweep parking lots, storage areas, and driveways, regularly to collect dirt, waste, and debris.

**Applicable Treatment BMPs:** An oil removal system such as an API or CP oil and water separator, catch basin filter, or equivalent BMP, approved by the local jurisdiction, is applicable for parking lots meeting the threshold vehicle traffic intensity level of a *high-use site*.

### **Vehicle High-Use Sites**

Establishments subject to a vehicle high-use intensity have been determined to be significant sources of oil contamination of stormwater. Examples of potential high use areas include customer parking lots at fast food stores, grocery stores, taverns, restaurants, large shopping malls, discount warehouse stores, quick-lube shops, and banks. If the PGIS for a high-use site exceeds 5,000 square feet in a threshold discharge area, and oil control BMP from the Oil Control Menu is necessary. A high-use site at a commercial or industrial establishment has one of the following characteristics: (Gaus/King County, 1994)

- Is subject to an expected average daily vehicle traffic (ADT) count equal to or greater than 100 vehicles per 1,000 square feet of gross building area; or
- Is subject to storage of a fleet of 25 or more diesel vehicles that are over 10 tons gross weight (trucks, buses, trains, heavy equipment, etc.).